The Atining Journal COMMERCIAL GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 627 .--- VOL. XVII.

LONDON, SATURDAY, AUGUST 28, 1847.

PRICE 6D.

OR SALE—The WHOLE, or ONE-HALF, SHARE in a COPPER AND SILVER-LEAD MINE, in MERIONETHSHIRE, NORTH Wales,

BE SOLD, BY PRIVATE CONTRACT, at GODOL-PHIN MINES, ONE 98-INCH STAMPING-EMGINE, 8 feet airoke
18-inch WHIM-ENGINE, 4 feet stroke, beiter, 7 tons, and cage
TUBULAR BOILERS, 11 tons each.
TUBULAR BOILERS, 11 tons each.
Application to be made to Capit. R. Williams, on the mis
ad Godolphin Mines, Helston, Cornwall, August 9, 1841.

TO BE LET, and entered upon immediately, a valuable SEAM of STEAM COAL, of about 200 acres, more or less, situated at OLD SHILDON, in the county of DURHAM. The shaft is already sunk, and a private line of railway conpects it with the Stockton and Darlington and Clarence Railways, below the Brussellon fuciline: there is also a considerable thickness of FIRE CLAY, containing great quantities of IRONS TONE intermixed with it—a sample of which can be seen on the bank—and which, being let with the coal, might together be worked with very great advantage, and is well worthy of the strengton of those whening it or tember it in such a speculation. CLAY also, for making bricks and draining ties, is in great abundance, and can also be let at the same time—Apply to Mr. John Robson, of Redwork House; or to Mr. Wm. Cleum minson, of Old Shildon.—August, 1847.

DUDDINGSTONE AND BRUNSTAIN COAL-FIELDS, near EDINBURGH, TO BE LET, as detailed in former advertisements. The LEAMS OF COAL are numerous, and BLACKBAND IRONSTONE may be expected in he lands, similar to that which has been recently discovered at Gilmerton, Drydon, and Preclaw, in the same range of coal strata. Excellent LiMESTONE is known in the node.—The near vicinity to the City and Portobelle, besides other markes now opened y rativary, sussing through the setate, connects, renders it now very eligible for colliery personner. There are two estame-engines, and other colliery machinery, at the pits, one of which is nearly sunk to the Jewel Coal.

Offers for a lease to be addressed to Mr. Geddes, 49, Albany-street, Edinburgh.

July 39, 1847.

TRONG MIXING PIG-IRON.—The YSTALYFERA TRONG MIXING PIG-IRON.—The YSTALYFERA IRON COMPANY beg to solicit ORDERS for their ANTHRACITE PIG-IRON. Iron mixes well with Sectoth pig-imparting to it strength and elasticity, and reing from it a portion of its softness and fluidity. No. 3 Pig is recommended for mix-with soft from—Nos. 1 and 2, for machinery castings, requiring great soundness and agth. At this period, when cast-iron is so much employed in the construction of ges and other buildings, requiring all the strength and elasticity which the best mix-of mestal will afford, it may be interesting to call attention to the characteristics of GERACITE PIG-IRON, as exposure on by that great practical authority, the late reg with exceeds, in eteroph, in defective powers, and especity to resist impact, any at this time manufactured in the United Kingdom."
If now only remains for me to mention a property peculiar to this iron, which was coat at the time of I made the trial experiments, four years ago, but which has been more developed in those more recently made. The property referred to is one of great signess, or elasticity, which communicates a treadency to the bar, in defecting and king, to resume its rectangular form. Bars that had obtained a permanent set of this, when afterwards broken, presented but a slight deviation from a right line; and

on afterwards broken, presented but a slight deviation from a right lin lid the curvature exceed one-fourth of a tenth."

To remarked, that most of the fractures, in breaking, presented a recoughout, resembling the structure of subardened steel."

ng the structure of subcordered steps.

THE YSTALYFERA IRON COMPANY,

Near NEATH, SOUTH WALES. ted June 22, 1847. TOT-BLAST WITHOUT COAL, LABOUR, OR REPAIRS.
DIXON AND BUDD'S PATENTS.
Apply for particulars, or to inspect the process in operation on six blast-furnaces.
Falmer Budd, Eq., Ystalyfors Iron-Works, near Neath.

YFNGWM LEAD MINES, NORTH WALES-Conducted ON THE COST BOOK SYSTEM.
OPPICES - No. 38, OLD TEWRY.
JAMES JAMES
and plans of the mine may be seen, and all in

ENERAL MINING MART AND CLUB HOUSE

to form an assistance in London, to be called— ERAL MINING MART AND CLUB ROUSE," payment of 24 4s, per annum. From and aft c Guines will be required beyond the subscription ived from the institution will be these:— blow will be received there, and his address in Le

bility of

As the avocations of these noblemen and gen-rour of frequent visits, it is trusted that it y n rith their patronage and support, by becoming it subscription of Ten Guiness in lieu of all an ciude the favour of frequent institution with their patrona-ing a present subscription of entitle them to all the advant bers of the committee, should Subscriptions from mines we to the advantages of the institu-Letters for further informa I. G. Beckeles, 18. Combill

Letters for further information and applie J. G. Beckerleg, 18, Cornhill; to Mesers, Or the control of the A. Prodinnish, Three King tailed prospectuess may be obtained; prespone, 36, Floot-street.

PATENT GALVANISED IRON AND WIRE ROPE WORKS
MILLWALL, POPLAR.

ANDREW SMITH bega to inform the Mining, Railway, and Shipping interests, the ne
has obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, promoting a much superior article at a considerable saving in cost—the improved process for
salvanising wire rope, adding only \$10 per ton instead of \$30, under the ordinary processes. The rope is extendingly used in damy situations, for mining and railway purcess, and for ships' standing rigging.

O ENGINEERS, RAIL WAY CONTRACTORS, MINING AGENTS, IRONMASTERS, AND OTHERS REQUIRING FINE GREASE for DHINERY and ALESS of very description.—JOSEPH PERCIVAL'S IMPROVED TA-FRICTION GREASE is—after trials on machinery and axies of every kind where taken friction is kept up—admitted to be the most useful, economical, and best my contract to the public. Secretary of the public. Secretary of the public.

Secretary of the public of the mass and testimonials shown of the translation.—Samples for warded on application at the massafectory, Green-street,

₹,

ENGLAND, INDIA, AND AUSTRALIA.—The Right Honourable the Lords Committee of the Privy Council for Trade and Plantations have been pleased to GRANT PERMISSION to the INDIA AND AUSTRALIA MAIL STEAM-PACKET COMPANY to ESTRALISH, at tonce, the WHOLE LIME of STEAM-PACKET STOME ENGLAND TO INDIA AND AUSTRALIA, with the Mediterranean, Egypt, &c., in conformity with the terms of the Royal Charter of Incorporation, which received the Great Seal on the 6th of August, 1847, and is now deposited at this office, whose copies of the same may be obtained, together with prospectures and further information.

By order of the board,
Offices, 34 Combill, JOHN YATES, Secretary.

Offices, 34, Cornhill,

STEAM TO INDIA VIA EGYPT, MALTA, ITALY,
ALEXANDRIA, AND THE PENINSULAR PORTS.
PASSAGE TO BOMBAY, MADRAS, AND CALCUTTA.
The Peninsular and Oriental Steam Navigation Company BOOK PASSENGERS for CETILON, MADRAS, and CALCUTTA direct, by steamers leaving Southampton on the 20th, and for Alexandria, en route to Bombay, on the 1st of every month.

A steamer from Southampton leaves the 1st and 20th of every more steamers to Naples, Genoa, Civeta Veechia, three times a mont STEAM TO CORUNNA, OPORTO, VIGO, LISBON, CADIZ, AND GIBRALTAR.

A steamer leaves Southampton on the 7th, 17th, and 37th of every month.

ar and Oriental Steam Navigation Company's off y passages can be secured throughout.

RIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAILWAY.—Notice is hereby given, that the next ORDINARY MEETING of the sharsholders of the BIRMINGHAM, WOLVERHAMPTON, AND DUDLEY RAIL WAY will be HELD at Dee's Royal Blotal, in Temple-row, Birmingham, on Monday, the 30th day of August, 1847, at Twelve o'clock is the forenom.

The transfer books of the company will be closed from the 19th day of August inst. until after the day of the meeting.

Proxy papers, in order to be available, must bear a stamp of 2s. 6d., and must be received by the secretary 48 hours, at least, before the time appointed for the meeting.

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be available, must bear a stamp of 2s. 6d., and must be rears, at least, before the time appointed for the meeting.

WILLIAM MATHEWS, Chairman
JOHN W. KIRSHAW, Secretary

mett's-hill, Birmingham, August 10, 1847. BIRMINGHAM AND OXFORD JUNCTION RAILWAY

— Notice is hereby given, that the next ORDINARY MEETING of the shareholder

or the meeting.

be available, must bear a stamp of 2s. 6d., and must be re iours, at least, before the time appointed for the meeting.

WILLIAM MATHEWS, Chairman

JOHN W. KIRSHAW, Secretary

gham, August 10, 1847.

CAMERON'S COALBROOK STEAM COAL AND SWANSEA AND LOUGHOB RAILWAY COMPANY.

CONTRACT: FOR WORKS.

The directors of the SWANSEA AND LOUGHOR RAILWAY COMPANY are prepared to RECEIVE TENDERS for the EXECUTION of the WORKS on their line of railway.—Plans and specifications may be seen, and forms of tender obtained, at the office of Thomas Page, Eeq., the company's engineer, Thames Embankment Office, 2, Middle Scotland-yard, Whitehall, London, between Monday, the 30th of August, and Friday, the 3d of September, both inclusive: and at the offices of John Jackson Frice, Eaq., solicitor, Swansea, from Monday, the 6th, till Saftprday, the 11th Sopt. next, both inclusive.

Sealed tenders addressed to the socretary must be delivered at the company's offices here, not later than Twelve o'clock on Monday, the 13th September next. The directors do not piedge themselves to accept the lowest tender.

By order of the directors, London, 2, Moorgate-street, August 34, 1847.

A. C. HOWDEN, Secretary.

JIADUCTS AND OTHER RAILWAY WORK .- The attention of Bullway Engineers, Ambitects, and Contractors is particularly directed to the great advantages to be derived from the application of SEYSSEL ASPHAUTE, as the only impersions can be permanent covering for arches and roofs, and lining of recervoirs, gutters, &c. The arrangements of CLARIDGE'S PATENT ASPHAUTE COMPANY enable it to execute works of any extent with the greatest promptitude.

In order to guard against the use of spurious materials, it is important that all applications for works to be executed be made direct to this company; and, as a further protection, it is suggested that Engineers, Architects, and Contractors, should require a CERTIFICATE from the company that the proper description of material has been used.

Information may be obtained as to all works which have been executed by the company since its establishment in 1838, which will prove that the failure of many works represented to have been done with the genuine masterial has resulted from the substitution of a spurious one.

Seyssel Asp

IMPORTANT TO RAILWAY AND STEAM NAVIGATION COMPANIES, MANUFACTURERS, AND ENGINEERS.

W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID (or Animal Oil) FOR ALL DESCRIPTIONS.

W. B. & CO. have the pleasure to atale, that the above article is extensively used in her Majesty's Steam Navy, and by several of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical engineers of the day, to be far better adapted for the purposes of lubrication than any other article initherto used for such purposes. The Fattent Lubricating Fluid is equally applicable for the most intricate and fine pieces of machinery, as for the heaviest bearings of the steam-engine. It is cheaper, much more economical, and cleamer than oils at present in use is free from smell, and calculated to effect a vast saying in the expenditure of working steam powers. Further particulars can be had, and testimonials seen, by application to the manufacture of warring steam powers. It is cheaper, much more economical, and cleaner than olis at present smell, and calculated to effect a vast asying in the expenditure of wor Further particulars can be had, and testimonials seen, by applicant turers, W.B.—The above article will burn in lamps, and give a light equal to

MPORTANT TO ENGINEERS, MANUFACTURERS RAILWAY AND STRAM-BOAT COMPANIES.

Mearrs. W. & C. MATHER beg to each the attention of the ABOVE PARTIES to their IMPROVED PATENT EBASTIC METALLIC PISTONS.

the PRINCIPAL FEATURE and SELF-ADJUSTIMS.

1. Its great ELASTICITY and SELF-ADJUSTIMS.

1. Its great ELASTICITY and LIGHTNESS, consisting of only two cosable friction.

2. Its extreme SIMPLICITY and LIGHTNESS, consisting of only two laving the vertical and lateral pressure in due and proper proportion, such other.

3. It takes the LEAST possible SFACE, and is well adapted for air an ast is allows of a larger water way.

Mesure. W. & C. MATHER feel confident that it is the BEST ELAST PACKING yet known, for the above reasons.

Models may be seen at the Raiford Irea-Works, Manchester; at W. Bar.

Newton-Moor; and also at J. Mather's, engineer, Boanfort-street, Cheles. The PRINCIPAL FEATURE and ADVANTAGE of THIS IMPROVEMENT is 1. Its great ELASTICITY and SELF-ADJUSTING PROPERTIES, which can bield to any inaccuracy of the cylinder, whether oval or taper, and to move with th

int that it is the BEST ELASTIC METALLIC

FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES PATENT VULCAMISED INDIA-RUBBER HOSE-PIPES AND TUBING OF EVERY DESCRIPTION.

pipes, or the common india-rubber pipes; and, as they do not become hard lowest temperatures, or require any application when out of use, are par advanted for fire-secrific.

owast temperatures, or require any apparentes when the fire-engines.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.

VULCANISED INDIA-EUBBER WASHERS, all elses, for team and hot-water joints

Solv manufacturer. Goswell Mews, Goswell-road, London.

PATENT OFFILE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON.

INVENTOES will RECEIVE (gratis), en application, the OFFICIAL CIRCULAR OF
INVENTOES will RECEIVE (gratis), en application, the OFFICIAL CIRCULAR OF
INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

Messrs. F. W. CAMPIN & CO. offer their SERVICES, and the benefit of many years
experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due
regard to VALIDITY, economy, and disputed—assisted by scientific men of regule.

Also, in MECHANICAL and ENGINEERING DRAWINGS, whichier connected with
Patents, Railways, or otherwise, by a staff of first-rate draftmen.
Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (corner of Essex-street).

MPORTANT TO ENGINEERS AND INVENTORS.—

On Friday, the 7th August, a STAMPED EDITION of the PATENT JOURNAL will be published, and on each succeeding Friday, to go free by goes, price 7th.—containing pecifications of Patents, which copious engravings—Articles on Belinthic Sulpice—Rejistrations—Lists of Patents, weekly, ice.

"To Engineers, Indoministers, and, indeed, to all interested in the arts, no work of the core useful; whilst, to inventors, it is indepensable."—Meachester Guardian.

A Specimen Number will be seen free of charge.—Sond a Fost-order order, payable to Saward John Payne, Esq., 89, Chancety-lane, when the Patent Journal will be forwarded in Friday eventure. For the war, 5th is, held-wear, 12a, 5d, capter 20 marks 7a.

Payne, Esq., 89, Chancery-lane, ening. For the year, £1 5s.; ha ice, Barlow, Le Capelain, and Pay

A SSAYING.—A PERSON, who has been engaged the last 15 years in the Assaying of Copper, Lead, Silver, and other Metals, would be giad to fill a SITUATION under a respectable company.—Address "M.," at the office of the Missing Journal, 26, Fleet-street, London.—Dated Angust 26, 1947.

YOUNG ENGINEER, well acquainted with Mineral Chemistry, Mineralogy, and Geology—in proof of which he will refer to his published mistry, Mineralogy, and Geology—in word of which has will refer to his published works and analyses—OFFERS his SERVICES, at a moderate salary, as an ASSAYE! and GENERAL ASSISTANT, to Mining Companies or Proprietors of Smalting-Works at home or abroad. The advertiser having been extensively engaged in the construction of Roads, Railways, and Hydraulic Works, would also take charge of the outworks of mine, especially in a new country, and do all in his power to further the interests of a employers.—Address to "C.," 17, Great College-street, Westminster.

PRETT AND LITTLE'S TELEGRAPH. are now prepared to GRANT LICENSES to RAILWAY COMPANIES, or OTHER RTES, for the USE of their PATENT, and are ready to SUPERINTEND its ADOP IN by COMPANIES providing their OWN MATERIALS for that purpose. TON by COMPANIES providing their OWN MATERIALS for the Tickets to view may be obtained at the offices, Furnival's Inn, Ho

CLARKE AND VARLEY'S ATMOSPHERIC RAILWAY.

—The MODEL of this RAILWAY is WORKED DAILY, from One to Four o'clock.

Entrance to the Works at the Poplar Station of the Blackwall Ballway.

WILSON & FRASER, 2, WELLINGTON - BUILDINGS,
LIVERPOOL, and 12, EXCHANGE-PLACE, GLASGOW, have always ON SALE
PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

RICHARD BOOT, ACCOUNTANT, MINE AND RAILWAY SHAREBROKER, COMMERCIAL AND GENERAL AGENT, 27

JOHN TREGONING, MINE SHARES COMMISSION AGENT, HIGH-CROSS, TRURO,

MINING OFFICES, 1, ST. MICHAEU'S-ALLEY, CORNHILL, LONDON.

WATSON AND CUELL, MINE AGENTS.

N.B.—STATISTICAL INFORMATION furnished (on application) to SHARL

HOLDER'S in MINES in Comwall, Devon, Scotland, Ireland, Wales, and Spain.

WILLIAM H. SMITH, MINING SHARE AGENT

MR. R. TREDINNICK, MINING AGENT AND DEALER
IN EVERY DESCRIPTION OF SHARES.
THREE KINGS COURT, LOMBARD-STREET, LONDON.

CHOMAS P. THOMAS, MINE AGENT, AND DEALER IN RAILWAY AND OTHER SHARES.

IN RAILWAY AND OTHER SHARES.

18, THREADNEEDLE STREET, LONDON.

T. P. THOMAS is a SELLER of Gwincar Consols, at £21; West Wheal Providence.
—and is a BUYER of Trehanes, Herodsfoot, Herodscough, North Pool, & East Pool,

JAMES LANE, MINING SHARE DEALE B. 70, OLD BROAD-STREET, LONDON:

BRITISH MINING OFFICES, 41, MOORGATE-STREET,
LONDON.—PROSPECTUSES may be had, and ORIGINAL SHARES ALLOTTED
in the COPPER and SILVER-LEAD MINES connected with these offices, on application
to the secretary.

THOS. HENRY TAUNTON

ORIGINAL REGISTRY OFFICE, FOR THE SALE AND
PURCHASE OF MINING SHARES.

No. 28, THREADNEEDLE-STREET, LONDON.
CROSSMAN, SOMMERS, AND CO., AGENTS.

SHARES FOR D Devon and Courtenay Consols East Wheal Rough Tor Great Wheal Frederick Tin Mine Great Wheal Rough Tor Granuller and St. Aubyn New East Crowndale North Wheal Camel Princess East

Acc.

MONEY.—MESSRS. WINSTANLEY & CO., Sharebrokers, and amount, on the deposit of English and Foreign Railway Shares, Scrip, and Debutters, upon exceedingly advantageous terms: they also BUY and SELL overy description of STOCK and MINING SHARES, at much rese commission than usually charged. 3 (6, Bank Chambers, opposite the Bank of England.

STURIAN MINING COMPANY.—Notice is hereby given that the ADJOURNED GENERAL MEETING of the shareholders will be HELL donday, the 30th day of August inst., at the company's offices, 9, Austinfriars, at Twick precisely. None but registered shareholders can take part in the proceedings of the precisely. precisely. None but regasered snaremones-eting; and no share will be received for registr e 28th inst. By order of the es of the Company, 9, Austiniriars, Aug., 1847. K. MACKENZIE, S

EAST CROWNDALE MINE.—WANTED TO PURCHASE A LARGE INTEREST in THIS MINE.—The number of all cont per letter (pre-paid), addressed to "W. B.," Jamaica Coffee alley, Cornhill, London.

REAT SOUTH TOLGUS MINING COMPANY.

directors hereby give Notice, that the CALL of TEN SHILLINGS per shar was made on or about the 22d of July last, in accordance with Regulation, No. 1, ABLE, the 21st inst.; and that any SHARES upon which the said CALL shall BEEN PAID, will, after the expiration of one month from this Notice, become PETFED, and will be publicly solid accordingly.

By order of the board.

Liverpool, August 28, 1847.

TATIONAL BRAZILIAN MINING ASSOCIATION. Notice is hereby given, that, after Monday, the 30th SCRIP will be MARKED, or MONEY RECRIVED, on a MENT of \$1 per share on the marked shares and scrip, d By order of the board, JOHN K 26, Throgmorton-street, August 20, 1847.

SSAYING AND ANALYSIS .- Mr. MITCHELL begs to ANALI ISC.—MIT. MITCHELLI DOS

inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANU
TORIES, that he still continues to CONDUCT ASSAYS and ANALYSES of all
DUCTS, metallurgical and manufacturing, at his LABORATORY,

33, HAWLEY-ROAD, KENTISH TOWN, LONDON,
to which address communications are to be forwarded.—Instruction in all branch

BRUNTON'S PATENT ORE-DRESSING FRAME,—
These FRAMES, for DRESSING TIN, COPPER, and OTHER MINERALS, saving been in use, and given satisfaction, on several mines, during the last two years, the PATENTEE been to call the attention of all Adventurers and Mine Agents to the great advantages, both as regards decommy of labour and the great increase of mineral obtained by their adoption. The following gentlemen can certify as to their mility: "Thos. Bolith and Sons; P. N. Johnson, Eq.; Capt. Jos. Vivian, Cook's Kitchem Mine; Capt. R. Kernick St. Ives Comool; Capt. R. Edwards, Wheal France; Capt. W. Toaque, Wheal Grey Capt. James Miners, and Capt. Matthew Rogers, Carn Brea Mines.

THE PATENT SAFETY FUSE.

FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE OPERATIONS.—This article affords the SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very husardous operation. From many testimonies to its assemiances with which the manufacturers have been favoured from werey part of the kingdom, they select the following letter, recently received from John Taylor, Esq., F.R.S. &c.,—"I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the Safety Fuse; and I am quite willing that you should employ my name as evidence of this."

Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAYEY, Cap.

DATENT IMPROVEMENTS IN CHRONOMETERS.

WATCHES, AND CLOCKS.—E. J. DENT, 38, Strand, and 33, Gockspur-etreets watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness watches, and clock, is secured by three separate patents, respectively grained in 138, 1840, 1842. Silver lever watches, however, the consequence of the chronometers, watches, and clock, is secured by three separate patents, respectively grained in 138, 1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each 2, in gold cases, from 28 to £10 extra. Gold horizontal wa ches, with gold dials, from 6 gs. to 18 gs. each, DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for delivery. Pamphlets containing a description and directions for its use 14, each, but to customers grain.

349,857l.; Eastern Counties, 351,845l.; Grand Junction (including Liverpool and Managemetr, and Bolicon and Leigh), 443,664l. Grand Junction (including Liverpool and Managemetr, and Bolicon and Leigh), 443,664l. A structure of the transfer of the passes of the structure of the

that may be desirable.—Western Luminary.

The Duke of Wellingron.—We have been much pleased by the inspection of Mr. Royall's new portrait of the hero of Wellingron, which has just been engraved from a Daguerreotype executed in 1844: the likeness is so true to nature, and so complete a translation of the features, character, and very look of the illustrious Duke, that nothing but the reflection of the face of his Grace in a mirror can surpass it. Little prophetic power is required to predict that this portrait will supersede all others—it is a simple result of the union of aclence with art: the Duke is represented in a sitting posture, and the portrait is admirably adapted for a companion to that beautiful engraving of Napoleon by De la Roche, of Paris.

The capital employed in the content of the capital employed in the capital.

The capital employed in the coal trade of Northumberland and Durham is timated at nearly 10,000,000l. sterling.



L EMONNIER, HAIR-WORKER to the Queen EMICH NIER, ITALIA WELLER IN THE CONTROL OF THE CON ther cement. A variety of Trees executed by a mechanical process.

No. 13, RUE DU COQ SAINT HONORE, PARIS.

ON NERVOUS DEBILITY & GENERATIVE DISEASES.

—Just published, the Thirtieth Thousand, an improved edition, revised and corrected, 120 pages, price 2s., in a scaled envelope, or forwarded, post-paid, to any address, secure from observation, for 2s. 6d., in postage stamps, illustrated with numerous association observation, for 2s. 6d., in postage stamps, illustrated with numerous association of the control of the cases of its Fremature Decline, with Plain Directions for its Perfect Ectoration. A medical essay on those diseases of the generative organs, emanating from solitary and sedentary habits, indiscriminate excesses, the effects of climate, and inhection, &c., addressed to the sufferer in Youth, Manhood, and Uld Age; with practical remarks on marriage—the treatment and cure of nervous and mental debility, impotency, spiphilis, and other urino-genital diseases, by which even the most shattered constitution may be restored, and reach the full ported of life allotted to man. The whole illustrated with numerous anatomical engravings on steel, in colour, explaining the various functions, secretions, and structures of the reproductive organs in health and disease; with instructions for private cerespondence, case, &c.

By J. L. CURTIS and CO., Consulting Surgeons, 7, Frith-street, Sales-square, London.

REVIEWS OF THE WORK:—" Manhood: 'a medical work. To the gay and thoughtless we trust this little week will serve as a beacon to warn them of the danger sitemant upon the too rash indulgence of their passions, whilst to some it may serve as a manifor in the hour of tempiration, and to the afflicted as a sure guide to health."—

Chronice. "We feel no healtation in waying, that there is no member of society by whom the book will not be found assertile—whether such person hold the relation of a parent, a preceptor, or a clergyman."—Sam. Exemps Paper. "Curis's on Manhood should be in the hands of youth and old age. It is a medical publication, ably written, and developes the treatment of a clease of paintin maladles whic ON NERVOUS DEBILITY & GENERATIVE DISEASES.

ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY, With 25 coloured engravings.

With 25 coloured engravings.

Just published (in a scaled envelope), price 2s. 6d.; or post-paid to any address, 2s. 6d., in Post-office order or stamps,

CELF-PRESERVATION: A Medical Treatise, on Marriage, and ex those Secret Infermities and Disorders of Youth and Maturity that are usually acade at an early period of life, which tend to destroy physical and mental energy, arpassion, and all the attributes of manhood. Illiastrated with twenty-five coloured vitage, on the anatomy, physiology, and diseases of the urinary and reproductive or explaining their various structures, uses, and functions, and showing the injuries that roduced in them, by solitary habits, excesses and infection. With practical observation on the treatment of nervous deblity, local and constitutional weakness, syphilia, ure, and other diseases of the urethra. By SAMUEL LAMERT; consalling surge, tending the disease of the urethra. By SAMUEL LAMERT; consiling surge, bedford-street, Bedford-square, London, Matriculated Member of the University, Honorary Member of the London Hospital Medical Society, Licensias othecaries' Hall, London, &c.

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ny a youth, as well as those of m from early indiscretions."—Man

from early indiscretions."—Magnet.

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CORNISH STEAM-ENGINES.

Mines.	Enginea.	Length of stroke	Load in pounds.	Load per eq. inch. on plet.	Strokes per min.		Million lbs. lifted 1 foot by consump. of 1 bush.coal	Average quantity of water per min.
	Roberts's 70-in.		80,122 47,020	16.1	5.6	3048	56·4 . 56·8	742 195
North Roskour		10.0	59,372	12-3	4:4	1944	55.9	214
	Trevenson's 80	10.33	84,779	12.6	3.2	1880	56.6	181
Carn Brea	" 76-in.	9.0	78,849	13.4	3.2	1740	57.0	2
Ditto }	Sime's 80, 90 }	9.0	67,862	22-0	4.1	1297	65-6	405
Poldice	Sims's 85-in.	10.0	82,040	10-1	7.5	8816	85.9	532
Ting-Tang {	Sime's 60, 90 7	9.0	56,514	18-8	4.0	1752	56-4	3258
United Mines	Taylor's 85-in.	11.0	97,106	15.5	5.8	3318	87:1	PACE
Ditto	Cardoza's 90-in.	9.0	99,468	18.7	6.6	4705	66.9	-
Ditto	Eldon's 30-inch	9.0	13,631	16.0	8-8	614	70.0	-
	Hocking's 85-in		100,358	14.8	6.3	4480	59.4	1
	Penrose's 70 in. Michell's 70 in.	10.0	52,862	13.6	3.7	1785	56·8 75·8	3498

CORNISH ENGINES.

Messrs. Lean ascertained, in 1834, by inquiries made on the seen at work in the county of Cornwall, and their several dis g to the diameters of their cylinders-

proving—although it is difficult to point out any remarkable general alterations that have been made. That the improvement, however, has been real and important, is shown by the great increase of the average duty. In 1835, it was 46-6 millions; but, since that time

the great increase of the average duty. In 1825, it was 46 6 millions; but, since that time, it has risen to 54 and 55 millions. The reported average duty for 1843 was 60 millions, but, since that time, it has risen to 54 and 55 millions. The reported, it is, perhaps, not a fair mean for the number formerly included in the list.

The engine which has, for some years past, reached the highest duty, has been a new one, with an 85-inch cylinder, called Taylor's engine, at the United Since, in Gwennap. It was erected, in 1846, by Meszra, Rocking and Loam, and was especially intended to work more expansively than had hitherto been practised. The boilers were made smaller in diameter than much, and of stronger plate, so as to stand a higher pressure of steam—the working clasticity being fixed at 40 lbs, per square inch above the atmosphere. Also, an extra number of boilers was provided, in order to give an increased proportion of heating surface; and the strongth of the working parts of the engine and machinery was augmented, to withstand the strain caused by the great force of the steam was cut off at about 1-10th or 1-12th of the stroke—thereby carrying out the principle of expansion to a greater extent than had ever before been attempted, except by Woolf, in this combined cylinder engines, where he expanded it above 20 times. The improvement was som evident by the duty performed. It was first reported in Dec., 1840, at 74°9millions, but rose every rapidly. In July, 1841, it passed 100 millions, which no engine had ever done before, except for short trials; and, in Sept., 1842, was reported at upwards of 107 millions.

Mr. James Sims attered an old Boulton and Watt engine at Carn Brea Mine, near Redrivath, to his combined cylinder pain; the small cylinder was made 50 inches, and the large one 90 inches diameter; the stroke of the pipton 9 feet. The performance of this angine has also bean very excellent, generally exceeding, and aweve failing much below, 90 millions. Its highest reported duty, in 1841, was 55′6 mil

90 millions. Its highest reported duty, in 1841, was 95° millions; in 1842, 92°9 millions and in 1843, 84°4 millions.

The progress of the application of the expansion principle has been intimately connected with the deepening of the shafts of mines. In order to render this principle effective it practice, to any great extent, it is necessary that a considerable mass of matter be put it motion by the stroke of the engine. Now, as the mines became deeper, the weight of the pump-rods and balancing machinery necessary for draining them, became, of necessity, increased—thus farnishing the mass of matter required, and affording opportunity of gradually extrying out the improvement involved in the principle of expansion to a further extent, and thereby increasing the beneficial effect obtained from it.

As the expansion was increased, it also became necessary to augment the pressure of the steam on its entering the cylinder—for otherwise the mean or effective pressure throughout the stroke would have been diminished, and the power of the stanging accordingly lessened. But the use of Trewthick's botier has allowed the pressure of the stang to be increased, as required, for greater expansion; and the load upon the piston, instead of heing lessened, is now generally much greater than; it ever was, or could have been, by the use of steam at full atmospheric pressure throughout the stroke. Many engines have a water load of from 15 to 18 lbs. per aquare inch, and the piston, and the average of 49 engines, in Dec., 1842, was 12°8 lbs. The water load on the atmospheric engine was generally about 7 or 8 lbs. per aquare inch, and to piston, and the average of

Of the proportions of Heating Burface and Area of Fire Grate, compared with the quantity q water segmented, and of fuel consumed, in the Cornish and Boulton and Watt boilers.

	1			Boller at	and flues.	ed to fire	Weight of
	No.	Place.	Number of Bollers.	Per square foot of fire grate.	Per lb. of water evaporated per hour.	fuel	fuel burnt per square foot of grate per hour.
Boulton & Watt	1	Albion Mills	1	4q. ft. 21-28 15-28	sq. ft. 0.15 0.163	1.294 1.3	Ba. 16:44 12:21
bollers 2		Practice of Watt	125	****	0.13	- 13	-
Cornish &	5 6	Wheal Towan United Mines Old Ford	3 4	36·11 43·88 43·7	1.302 1.022 1.56	12-75 10-72 13-1	2·83 4·09 3·64

REMARKS.—Cols. 1, 4, 5. From Mr. Purkes's Paper on Steam-Boilers. Table I. Trans. Inst. C.E., vol. iii., p. 47. - 47. From Mr. Wicksteed's Experimental Enquiry. Mean of experiments, 37 to 36, Table V. rimental Enquiry. Mean of experiments, 27 to 36, in

By this table it appears, that in the Cornish boiler—

1. The ratio of the area of the heating surface to that of the fire witch as great as in the common boiler.

2. The propertion of teating surface to the quantity of water evap

1. The ratio of the area of the heating enrises to that of the fire-graie, is more than twice as great as in the common boiler.

2. The propertion of neating surface to the quantity of water evaporated, or of fuel consumed, in a given time, is about 10 times as great.

3. The rate of combustion is slower with the Corasch boiler than with the common one, in the proportion of about 1 to 4.

"The mode of firing adopted in Cornwall, is spreading the charge of fuel squally and thinly over the fire, and feeding the fire frequently, with small quantities at a time, and with coal broken into small places. It is, in fact, merely a return to the methods recommended and adopted by Simeston and Watt. The former, in his directions for working York Water-Works engine (August 29, 1786), says—"Break every coal that is ligger than a goose's egg, and the oftener you fire, and the thinner, the better." Again, in his directions for the Croostatt engine—"Feed the fire a little at a time, and often, spreading the fine I qually over the grating; it is no matter how few rol coals compose the fire." Mr. Watt, in his "Directions," recommends "the fire should be kept of an equal thickness, and free from open places or holes, which are extremely prejudicial, and should be silled up as soon as they appear."

The thin fire is favourable to the perfect combustion of the fuel, and consequent absence of smoke; there is, however, a limit to this, determined by the entering of more air than is requisite for the combustion, and the loss of heat expended in unaccessarily regulated. In unaccessarily regulated and unaccessarily regulated by a decrease of duty, to the discredit of the engineer.

1 10 to 10 .		Amount of Duties performed by Engines of a known power.	
No.		Maximum of Effect	Revolutions of
33	**.**	23,400 mule spindles, spinning cotton yarn of about No. 110 with preparation	4300
40	:::	476 common throatle spindles, with preparation	100 shots
		100 ditto, 5-4ths ditto 16 ditto, 8-4ths ditto 6 winding machines. 3 warping ditto. 3 beaming ditto.	90 ,
24	****	2 pairs of flour stones, each 4 ft. 8 in. diameter	1 pair at 85 1 pair at 90
saffi is		2 pairs for oatmeal, same diameters	120 and 140
LLL	9.5	1 pair of fanners. 1 dust screen, and sifting mathine.	SAME
20 18		A sugar mill, with rollers, 4 ft. 4 in., by 2 ft. 3 in	4

WALKER's EFFLUVIA TRAF.—An apparatus, or, as it is called, a "trap," has been registered by Mr. J. Walker, of Shee-lane, for preventing the effluvia of drains from rising and infecting the sir. The inventor obtained the silver medal for his invention from the Society of Arts, and a model of it can be examined at his residence. It is intended to be placed over gratings, and its advantages are, that its action cannot be affected by stones or rubbish passing through the grating; that it can scarcely be put out of repair; that it cannot be stopped by ice, and that it will prevent the effluvia from the drain as well as from the sewer. There is a chamber or receptacle for water, and chains or links, &c., by which the person to whose management it is intrusted, can empty it of its contents and restore it to its proper position for acting as required. Now that the health of towns has become an interesting a subject for inquiry, it will be of consequence to investigate the claims of this invention and similar ones for public adoption. It is simple in its construction, and appears very efficacious.

THE MINERAL RESOURCES OF FRANCE.

We have been favoured with a copy of the official annual report of the engineers of mines during 1846, principally compiled by M. F. Le Play, chief engineer of the Royal Corps of Mines at Paris, and professor of metallurgy at the School of Mines. It is a most elaborate statistical work on the mineral resources of France, and affords a vast deal of information regarding the mines of that country, the manner of treating the ores, &c., and the progress making in that important branch of science and national industry. There being many English capitalists connected with French mines, we intend giving such extracts as we consider will be most interesting to our readers, and which may serve as a guide to them in their speculations. With the exception of a few mines that are worked by Government, it is by private individuals, or companies, that the mineral riches of the country are explored, under the direction and advice of experienced mining engineers, who have to make an annual report to the Minister of Public Works and General Administration of the Ponts et Chaussées et des Mines (roads, bridges, woods, forests, &c.) According to the law of the 15th July, 1845, regarding the police of the railways, and a Royal ordinance of the 15th November, 1846, the engineers of mines are specially entrusted with the inspection of the fixed steam-engines and locomotives employed, both on the railways and vessels, and the state of all the matériel connected with them, which will show the onerous duties confided to this important department. The first part of the report enters into details of the researches which have been made in the different mineral departments during, 1846, in which have been discovered a few beds of calamine of an excellent quality—in the 1sère, Lot, &c., lead, silver, and gold in small portions, and iron, tin, anthracite, and coal, are enumerated. When a demanter for a concession to work a mine is made to the Minister of Public Works, the engineers are previously bound to examine the locality, and make their report as to the probability of the existence of ore, &c., and the success of the undertaking, before such is granted, so as to prevent wild speculation and foolish outlay of capital. The inspection of the engineers last year as to the state of the mines throughout the country was very extended, from which it appears that the concessions and works in full operation amounted to 444—viz.: 275 of anthracite, coal, and lignits; 84 for iron ore; 37 for lead ore, copper, silver, antimony, and manganes; 26 for bituminous minerals, pyritous and aluminous earths, and pyritous peat mines, we intend giving such extracts as we consider will be most interesting to our readers, and which may serve as a guide to them in their specu-

According to the inspection made of the Mines or Algunta, the grey copper ore of Mouzaia, in the province of Algiers, and the oxide of iron, &c., in that district, are of an excellent quality, promise well, and are being worked. The ores of the province of Constantine (iron, copper, lead, sulphuretted and oxidated antimony, rock salt, and saline lakes) yield plantifully, as well as those of the province of Oran.

phurested and oxidated antimony, rock salt, and saline lakes) yield plantifully, as well as those of the province of Oran.

IRON ORE.—Theiron ore, commonly called allavion, is that which chiefly supplies the greater portion of the iron manufactures in France. The total number of the groups, or works, in 1846, amounted to 1457; and miners employed, 9285. As the ores are generally found at the surface of the carls, they are explored in open air, or at a very little depth, without being regular, and with the necessary precautions for the safety of the miners, which have required a strict police surveillance, and the intervention of the Government mining engineers, to confine as much as possible the pretensions of the forgemasters, or proprietors of the land, as they have recently caused a great number of contentions.

Prat.—In 1846 there were 2408 private, and 622 communal, or parochial, pent beds worked, employing 38,562 persons in the fine season—the price of which is becoming cheaper in consequence of the great use of coal.

FUNCACES.—As the furnaces in France, are creeted by virtue of Royal ordinances, which prescribe their distances, so as not to annoy other parties, the precautions necessary in smelting and treating the ores have rendered it necessary that the engineers should carefully inspect these establishments, so as to make their report, which is an important duty, as they have to examine the manner the ores are treated, and to give their advice to the masters as to the efficacy of the methods. In 1846 there were 1755 furnaces in the different departments in full blast for the treating of ones and the making of fonte iron, seel, &c. The number of workmen employed was 41,200. Wood, chazeoal, coke, and coal, are discriminately used at the furnaces, according to the description of metal, and the method adopted in making it.

Ratuways.—According to the law of 15th July, 1848, respecting the inspection of railways, and the Royal ordinance of 15th Nov., 1846, for the

and the making of foste iron, steel, &c. The number of workmen employed was 41,200. Wood, charcoal, coke, and coal, are discriminately used at the furnaces, according to the description of sactal, and the method adopted in making it.

RALWANZ.—According to the lew of 15th July, 1848, respecting the impaction of railways, and the Royal ordinance of 15th Nov., 1846, for the public safety on the different lines, these also come under the engineer of the the highest power before they are allowed to run on the rails, and when they undergo any repairs. By a Royal ordinance of the 6th April, 1847, there was appointed in the Department of Public Works a general commission for the impaction of railways, divided into four sections, of which the members of the Corps des Mines form a large portion. One chief congineer, and two ordinary ones, residing in Paris, are specially appointed with the imspection of the locomotives, &c., on the railways from Paris to the northern frontier, by Lille and Valenciennes, to Orleans (with branch to Corbeil), to Rouen, St. Germain, Versailles (right and left bank), and Sceaux—making 6634 kilometres—which lines had, on the 91st December, 1846, 295 locomotives: these are visited once a week in the workshops at the termini in Paris; the minor ones, once a month. Chief aggineers of the different mineralogical districts have the inspection of the lines in their vicinity. With respect to steam-engines, both on land and on board steamboats, there are 42 towns where they are inspected by a commission. In 1845 there were 7694 boilers, of which 6920 were of French manufacture. Of these, 2020 supplied steam for miscellaneous purposes; and the other 5674 supplied 1414 engines, of which 696 were low pressure, and 5506 high-pressure—being 50,187-horse power—equal to 150,561-horse draught, or 1,053,927 men; these 7694 steam-boilers were divided in 4432 establishments, of 146 different descriptions, in 76 departments.

STRLM-VESSILA.—In 1845, the number of steam-vessels exclusive of those of the Royal Coy

gations, and are permitted to participate in the various instructions and exercises of the schools; these consist in the exploring of mines, the construction and theory of steam-engines, chemistry, metallargy, mineralogy, geology, graphic drawing, the construction of superficial plans and subterraneous works, the English and German languages, &c. In the fine season, the pupils are exercised on the land, or in the quarries, in making plans, or travelling in France and foreign countries to study practically the different branches of mining science. The Mining Schools of St. Etienne and Alais are also for completing the education of first-rate engineers, who receive a diploma on leaving the institution, certifying their proficiency in every department of mining, steam-power, &c., &c. Every year a certain number of these mining engineers are authorised by the Government to travel in foreign parts to study the different veius of ore, the direction they take, and the various methods adopted in treating them, and thus acquire most valuable experience.

Coal Mines.—The number of coal mines conceded, and in full work,

travel in foreign parts to study the different venus of ore, the direction they take, and the various methods adopted in treating them, and thus acquire most valuable experience.

Coal Mines.—The number of coal mines conceded, and in full work, in 1845, was 449—275 of which were opened in that year. The surface presents a total of 459,551 acres. The extraction of the coal, and draining off the water, is by 100 molette engines, and 391 steam-engines—the latter amounting to 10,129-horse power. During 1845, the mines employed 30,768 workmen. The production of mineral, compared with that of 1844, had increased by 4,193,524 metrical quintals—making a total of 42,020,919. The consumption of coal throughout the kingdom had increased—during the last 15 years, progressing more rapidly than the interior production; as, during that interval, foreign coal formed a considerable part in supplying the different manufactories, and for private use—the same as, during the preceding years, the collieries of Great Britain, Belgium, the provinces of the Rhine (annexed to Prussia and Bavaria), furnished quantities for importation, amounting, in 1845, to 64,092,868 quintals. For the first time, since 1831, there was, in 1843 and 1844, a progressive decrease in the quantity of coal imported from Great Britain, which is accounted for in consequence of the export duty imposed in 1842 by the English Government of 23d, per kilo; that having been repealed in 1845, the importations again became as extensive as in 1842. The balance of the trade in coal, during 1845, shows the coal extracted from the basin of the Loire, 14,055,238 metrical quintals. Valenciennes, 9,458,027; Alais, 4,158,675; Cruezot and Blanzy, 3,003,799; Aubin, 1,654,600; Commentry, 1,056,544; from 56 other basins, producing a total of 8,633,976—making 42,020,919 metrical quintals. The foreign coal imported was—from Great Britain, 5,657,489 metrical quintals; Belgium, 13,961,664; Rhenish provinces, 2,406,954; various countries, 18,874—22,071,949; making a total of 64,092,868

countries, 18,974—total, 64,092,868 metrical quintals.

PRODUCTION AND EMPLOY OF IRON ORE.—The iron trade continues greatly to develope itself; in 1845, a new increase took place in cast metal. From 1819 to 1845, the quantity annually produced increased from 1,125,000 to 4,389,690 met. quin.; forged iron increased during the same interval from 742,000 to 3,422,613. The working of the iron ore, and the accessory industries, to render it proper for fusion in the furnaces, transformed into cast and forged iron, yielded, in the year 1845, a total value of 16,150,639 fr. (606,026L) A certain quantity of ore is annually imported from the Germanic States, the Island of Elba, Switzerland, &c.—Native ore, extracted from the mines, 12,495,168 metrical quintals; foreign ore, imported in 1845—Tuscany, 46,540; German States, 29,266; Switzerland, 22,697; United States, 4413; other countries, 571=12,598,655 metrical quintals. Ores employed in native furnaces, 12,593,359 metrical quintals. The average price of the quintal of ore, delivered at the foundries, and prepared for fusion, was, in 1845, 1 fr. 3 c.

Production and Employ of Fonts, amounted, in 1845, to 4,389,690

metrical quintals. The average price of the quintal of ore, delivered at the foundries, and prepared for fusion, was, in 1845, 1 fr. 3 c.

Production and Employ of Fonte, amounted, in 1845, to 4,389,690 met. quin., thus divided:—Worked by charcoal, 2,464,375; by wood (green, dry, or tarrified) alone, or mixed with charcoal, 184,352; charcoal and coke mixed, 362,893; coke alone, or mixed with coal, 1,378,070; this is divided into two categories:—Fonte daffinage (refining metal), 3,388,664; moulage, or moulding, 1,001,026. The quantity of cast metal manufactured by mineral fuel, has not ceased to increase since 1819, but, particularly from 1830, following a rapid progress—whilst, during the same period, fonte, made by vegetable fuel, has remained nearly stationary. The following figures show the principal improvements which have taken place in this fundamental branch of iron industry:—Fonte by mineral fuel, or mixed with charcoal—1819, 20,000 met. quin.; ditto dry vegetable fuel, 1,105,000 met. quin.; 1822, 30,000—1,07,7810; 1824, 53,000—1,922,999; 1825, 44,000—1,941,665; 1826, 55,684—2,002,747; 1827, 73,674—2,090,538; 1828, 215,700—1,993,477; 1829, 271,472—1,899,777; 1830, 271,031—2,392,577; 1831,275,854—1,972,200; 1832, 303,115—1,947,237; 1833, 392,803—1,968,195; 1845, 1,740,963—2,648,727. Notwithstanding the high import duties, which restrain this trade, there enters annually into France a large quantity of fonte, which is employed with the French new cast metal, made in the high furnaces of France—in 1845, 4,389,690 met. quin. New fonte imported from Great Britain, 229,262 metrical quintals; Belgium, 295,709; German States, 14,244; Sardinian States, 8150; Swizzerland, 4588; Tuscany, 3971; different countries, 556,485; old fontes of various sorts, 760,083—total, 5,706,258 metrical quintals. The employ of the above was as follows:—New and old fontes, for the production of bar-iron, 4,083,934 metrical quintals; ditto for cast steel, 52,388; ditto for moulding of the first fusion, 593,744; ditto exported to vario

PRODUCTION AND EMPLOY OF FORGED IRON.—The production of forged iron amounted, in 1845, to 3,422,613 quintals, divided as follows:—English affinage, 2,027,723; ditto Comtois, 829,412; ditto Champenois, 240,163; ditto improved, 112,550; treatment of Catalan and Corsican, 97,782; ditto improved, 112,550; treatment of Catalan and Corsican, 97,782; ditto improved, 112,550; treatment of Catalan and Corsican, 97,782; ditto riblons, 69,942; Wallon affinage, 40,902; ditto Nivernais, 4139 met. quin. The following shows the rise of mineral fuel, since 1819, in the making of maleable iron, which has progressed more rapidly than in that of fonte:—Iron made partially or exclusively by charcoal, in 1819, 732,000 met. quin.—exclusively by coal, 10,000 met. quin.; 1825, 1,024,792—410,696; 1835, 1,081,592—1,013,795; 1845, 1,084,785—2,337,828 met. quin. Besides the above, a certain quantity of foreign iron, from Great Britain and Sweden particularly, is annually imported, which is mixed with the French, and also old iron, called riblons. New iron made in the different furnaces in France, 3,422,613 met. quin.; ditto imported from Great Britain, 22,340; Sweden, 56,048; ditto Russia, 5517; different countries, 1042—84,947 met. Quint.; old iron, or riblons, 262,146; old iron from different countries, 153 metrical quintals. The value of rough bars of forged iron, and from fonte, in 1845, amounted to a total of 1,448,5634.

PRODUCTION AND EMPLOY OF STEEL.—The steel produced by the French

PRODUCTION AND EMPLOY OF STEEL.—The steel produced by the French furnaces belongs to two chief catagories—natural, or forged steel, and comented steel. The natural steel is obtained by a refinage, by means of charcoal, of fontes, exclusively produced by that fuel. The cemented steel is obtained from forged iron, exclusively prepared by vegetable fuel, but converted into steel in apparatus called cementation furnaces, which generally, throughout France, are worked by mineral fuel. The manufacconverted into steel in apparatus called cementation furnaces, which generally, throughout France, are worked by mineral fuel. The manufacture of natural, cemented, and cast-steel, by means of coal and coke over vegetable fuel, has progressed in a similar manner to that of fonte and iron, sincell 826, as follows:—1826, natural raw steel, 32,568 met.quin.; cemented, 15,000; cast, 1580: 1845, natural raw steel, 40,047; cemented, 66,963; cast, 16,735. Foreign countries supply annually a large quantity of raw steel to the French factories for home cousumption—as, hitherto, the soil of France has not produced ores suitable for the making of steel. This ore has only been met with in small seams, situated in the Austrian provinces of the Alps, in the Prussian provinces of the Rhime, and several groups of the forges in the north of Europe, particularly in Sweden. During the last century, and the commencement of this, raw steel and wrought, of a superior quality, was imported direct from foreign countries; but, since 1814, they have commenced producing the same description of steel by importing steel finites of the Rhime, to rofine them in the group of forges of the east and north-eastern departments, or iron-steel of Sweden—so as to submit them to cementation in the proximity of the coal basins. The quantity of raw and wrought-steel, imported since 1831 for home consumption, was as follows:—Steel in bars, drawn or curved, 1831, 2800; 1835, 7570; 1845, 5500; cast and refined, 1831, 300; 1835, 700; 1845, 670: worked steel, 1831, 4560; 1835, 7870; 870, 5580. The trade in steel, in 1845, was—from native fontes, about 30,547; foreign, 9500—40,047. Native cemented iron steel, 50,563; foreign, 16,400—66,963. Steel imported in bars from Great Britain, 1500; States of Germany, 4820; different countries, 100: wrought-steel from Germany, 3590; England, 1990 — total, 119,010; which, when manufactured, produced 340,440l. The total value of the five branches of the fron trade, in 1845 (viz.: extracting and preparing the ores, manufacture of fonte, ditto bar-iron, bar-iron and fonte, and the working of steel), yielded 6,644,512l.

tracting and preparing the ores, manufacture of fowte, ditto bar-iron, bariron and fowte, and the working of steel), yielded 6,644,512.

METALS OTHER THAN IRON.—Whilst the production of mineral coal, and every branch of iron industry, is increasing yearly in France, that of other metals remains nearly stationary, or decreasing on the return for 1845. Copper: native copper ore, 340 met. quin.; foreign ditto, 1100; sulphur extracted from copper, 11,400; sulphate of copper and iron, 100 met. quin. Lead, sulphur of ditto, silver, litharge, antimony, &c., value, 63,468.

Consumption of Coal.—Since 1838 (which is the last report of the Administration of Mines on the consumption of coal), it has increased considerably. In 1838, the production of native coal was 31,132,525; surplus of importations over exportations, 11,916,345—total, 43,048,870 metrical quintals;—and, in 1845, it was 63,430,692. The production of coal has been, in the Loire, Valenciennes, Alais, Creuzot and Blanzy, Aubin, Commentry, &c., in 1838, 31,132,525; and in 1845, 42,020,919 metrical quintals. Importations from Britain, Belgium, Prussia, and Rhenish Bavaria, &c., in 1838, 12,270,300; and in 1845, 22,071,949. Total number of peat beds, 3433; workmen employed, 58,562; weight, 5,201,823 met. quin; value, 201,605l. Total quantity of iron ore, 24,601,923 met. quin; value, 606,016l. Cast metal (fonte), 4,389,690; of which 35,576,619 was made by charcoal only, and 2,503,561 by wood and charcoal mixed; value, 207,051l. Bariron, 3,422,613; value, 2,178,091l. Bariron and cast metal, 1,449,054l. Wrought steel, 40,047; ditto cementation, 66,963; ditto cast, 16,735; value, 344,301l. Fonte, iron and steel, total value, 6,644,632l. The following is an enumeration of the mines:—Copper, 88; lead and sulphur of lead, 60; lead and silver, 172; lead, copper, and silver, 36; silver, 6; tin, 6; antimony, 44; gold, 17; mercury, 5; zinc, 14; manganese, 36; chrome, 2; cobalt, 7; nickel, 2; bismuth, 2; arsenic, 10; graphite, 1—total, 508; worked by machinery of 821-horse

E.—The weight of primitive mineral productions in France is by 100 kilogrammes rical quintal. The ton is 1000 kilogrammes, or 10 quintals—equal to 2240 lbs is the metrical quintal being equal to 224 lbs.

MINES, METALLURGIC ESTABLISHMENTS, &c., of BELGIUM [Continued from last week's Mining Journal

The preceding tables show that the price of labour did not notably vary from 1839 to 1844; and it may be estimated, that the average pay of a workman in the mines, throughout the province, was 1 fr. 61 c. The quantitie of coal extracted in the province of Hainaut were-1839, 2,590,011 tons; 1840, 2,951,781 tons; 1841, 2,968,875 tons; 1842, 3,059,183 tons; 1843, 2.874.453 tons; 1844, 3.290.728 tons. The value of the coal extracted was --1839, 34,346,519 fr. 30 c.; 1840, 36,433,092 fr. 88 c.; 1841, 32,916,530 fr.; --1839, 34,346,519 fr. 30c.; 1840, 36,433,092 fr. 88 c.; 1841, 32,916,530 fr.; 1842, 28,708,753 fr. 32 c.; 1843, 27,630,825 fr. 98 c.; 1844, 30,990,772 fr. The average production of each pit was—1839, 8870 tons; 1840, 9553 tons; 1841, 10,380 tons; 1842, 10,965 tons; 1843, 11,141 tons; 1844, 13,322 tons. The most important debouchés of the coal-pits of Hainaut were for those of the Couchant du Mons, France, and Eastern and Western Flanders; for those of the Centre, the provinces of Antwerp and Brabant, and Holland; for those of Charleroy, the numerous metallurgical establishments in that province, and the frontier provinces of France. The following table shows the respective destinations of the coal extracted:—

1839. 1840. 1841. 1842. 1843. 1844.*

1843. Railways of the Haut et 850,560 .. 859,380 .. 862,053 .. 946,083 .. 772,467 .. 936,720 Charleroy to 7, ..., ... 439,545 ... 485,707 ... 481,756 opened 1832 c... 234,733 ... 270,677 ... 338,441 ... 321,920 ... 394,321 ... 409,970 f. In tons of 1000 kilogrammes.

The following table shows the average selling price of the ton of 1000 kilogrammes (about 2000 lbs. English, in each of the three divisions of the Hamaut.) [We are obliged to retain the Belgian designations.]

Hainaut.) [We are obliged to retail the Edigial designations]

RASIN OF THE COUCHANT DE MONS.
1839. 1840. 1841. 1842. 1843. fr. c. Fines ... 8 75 ... 7 50 ... 6 88 ... 7 50 ... 8 12 ... 8 12

RASHN OF THE CENTER:

Charbon demi-gras | Houille ... 18 50 ... 18 50 ... 18 00 ... 19 00 ... 17 70 ... 18 00

Charbon 10 32 ... 9 83 ... 9 33 ... 8 72 ... 8 38 ... 8 46

RASHN OF CHARLESOT.

Charbon gras ... | Houille ... 23 00 ... 23 00 ... 23 00 ... 23 00 ... 23 00

Charbon demi-gras | Charbon 16 50 ... 13 50 ... 10 50 ... 9 50 ... 9 79 ... 9 28

Charbon demi-gras | Charbon 12 50 ... 11 25 ... 8 50 ... 18 00 ... 7 74 ... 8 30

Charbon maigre ... | Charbon 12 50 ... 11 25 ... 8 50 ... 18 00 ... 7 74 ... 8 30

Charbon maigre ... | Charbon ... 7 25 ... 6 25 ... 6 08 ... 5 00 ... 5 84 ... 5 40 II. PROVINCE OF NAMUR AND LUXEMBOURG.

The number of coal mines conceded in this province was 38 in 1839, and 39 in 1840, 1841, 1842, 1843, and 1844. The surface they covered was — 1839, 11,158 heet.; 1840, 11,452 heet.; 1841, 11,568 heet.; 1842, 11,568 heet.; 1843, 11,568 heet.; 1844, 12,157 heet. Since 1839, no pit in the province has been worked without a concession. The following shows the number of pits worked and left unworked:—

Total..... 38 39 40 40 40 40

| 1839 | 1840 | 1841 | 1842 | 1843 | 1849 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 | 1845 |

Mechanical apparatus 2 2 6 5 5 2 2 7
Galleries 8 7 6 5 5 5 7
By steam-engines:—1839, 6 machines representing 142-horse power; 1840, 10 machines representing 237-horse power; 1841, 12 machines, representing 283-horse power; 1842, 12 machines, representing 283-horse power; 1843, 14 machines, representing 322-horse power; 1844, 12 machines, representing 277-horse power. All the steam-engines served also for pumping off water. In 1840, 1841, and 1842, there was only one steam-engine, of 6-horse power, specially devoted to drawing off water; in 1843, there were 3 of 86-horse power; and in 1844, 2 of 41-horse power. The coal-pits were also drained by means of galleries, of which the number was—56 in 1839 and 1840, 57 in 1841 and 1842, 58 in 1843, and 59 in 1844. The province of Namur and Luxembourg contained only a small number of pirà à grison. The ventilation and lighting occasioned no serious difficulty. In most of the pits the circulation of air was established naturally, by means of open communications, shafts, or galleries, between the works and the surface. In the workings which attained the greatest development, chimneys d'appel, and, if necessary, the toc feux, were employed to increase the airing.

The average number of such chimneys was—15 in 1839, 17 in 1840 and 1841, 18 in 1842, 19 in 1843 and 1844. Generally speaking, the ventilation of the pits has of late years received notable improvements, by the adoption of a divided current of air, and by the care taken to give a direction constantly upwards to the ventilation of the mines à grison. Till now, the lamp of Davy has been exclusively employed in those mines of this province. The number of workmen employed in those mines of this province.

1165; 1840, 1036; 1841, 1190; 1842, 1159; 1843, 1041; 1844, 1110. The average daily salary of each man was—1839, 1 fr. 45 c.; 1840, 1 fr. 44 c.; 1841, 1 fr. 37 c.; 1842, 1 fr. 37 c.; 1843, 1 fr. 38 c.; and 1844, 1 fr. 31 c. From 1836 to 1838 the pay of the men constantly increased, nutil is attained 1 fr. 61 c. From 1839 it declined. The increase of 1836 to 1838 was owing to the great development which the working of the coal-pits took. The quantity of coal extracted was—1839, 124,397 tons; 1840, 125,038½ tons; 1841, 123,038 tons; 1842, 135,378 tons; 1843, 141,456; 1844, 134,904 tons. The value of the coal extracted was—1839, 834,824 fr.; 1844, 688,086 fr. Formerly all the coal extracted in the province of Namur was consumed in the province, and in parts of Liege, Luxembourg, and the Brabant; but, of late years, great part of it has been sent towards France. The quantity consumed in the country was—1839, 123,523 tons; 1840, 108,770½ tons; 1841, 106,060 tons; 1842, 128,572 tons; 1843, 130,992 tons; 1844, 17,454 tons. Exported to France—1839, 874 tons; 1840, 16,288 tons; 1841, 16,978 tons; 1842, 6806 tons; 1843, 10,564 tons; 1844, 17,450 tons. The average price decided to France—1839, 1555 tons; 1844, 17,450 tons. In the province of Luxembourg, which makes the fourth district, there was only one coal mine worked. The average price per ton of coal, of all qualities, was—1839, 6 fr. 63 c.; 1840, 6 fr. 12 c.; 1841, 5 fr. 22 c.; 1842, 5 fr. 23 c.; 1843, 4 fr. 94 c.; 1844, 5 fr. 10 c. III. PROVINCE OF LIEGE.

6 ff. 12 c.; 1841, 5 fr. 22 c.; 1842, 5 fr. 23 c.; 1843, 4 fr. 94 c.; 1844, 5 fr. 10 c.

HI. PROVINCE OF LIEGE.

The number of mines conceded was—1839, 69; 1840, 76; 1841, 80; 1842, 80; 1843, 81; 1844, 83. The number provisionally allowed to be worked was—1839, 41; 1840, 34; 1841, 29; 1842, 29; 1843, 28; 1844, 29.

The extent of surface conceded was—1839 (hectares), 17,481 60; 1840, 18,473 00; 1841, 20,244 40; 1842, 21,326 80; 1843, 21,043 17; 1844, 22,349 00. The extent of surface provisionally conceded was—1839 (hectares), 10,351 70; 1840, 10,351 70; 1841, 9044 20; 1842, 8071 90; 1843, 7382 43; 1844, 7372 43. The mines, in 1839, worked were 99—left unworked, 11; 1840, 90—20; 1841, 86—23; 1842, 83—26; 1843, 79—30; 1844, 75—37. The number of pits in activity was—1839, 110—at which works were in construction, 18; 1840, 109—15; 1841, 103—11; 1842, 101—8; 1843, 102—5; 1844, 92—7. The maximum depth of the pits worked, in 1844, was 510 metres; the average depth, 151 metres. The number of steam-engines employed in the extraction of coal, some of which were also used to draw off water, was—1839, 59 machines, representing 1303-horse power; 1840, 65—1457-horse power; 1841, 74—1594-horse power; 1842, 75—1701-horse power; 1843, 77—1765-horse power; 1844, 639-horse power; 1842, 35—3877-horse power; 1844, 36—4152-horse power; 1844, 39—4104-horse power; 1843, 33—3603-horse power; 1844, 39—4104-horse power; 1843, 36—4152-horse power; 1844, 39—4104-horse power; 1843, 36—4152-horse power; 1844, 39—4104-horse power; 1840 consensed particular attention to be paid to the ventilation of mines, especially in the coal-pits à grison. They permitted only the ascending plan of airing in the mines, which produced carburetted hydrogen gas. The steam-engines employed in ventilating mines were—1 engine, of 20-horse power, from 1839 to 1841; 2, of 28-horse power, from 1842 to 1844; 66 feater in 1839, 55 in 1843, and 49 in 1844. In two districts the mines were ventilated naturally, or by the aid of chimneys.

The lampof Mueseler was first mos

The lamp of Mueseler was first most appreciated in the province of Liege; but it was not until 1844 that it came into use in a notable manner. From 1845, it begun to carry on a formidable rivalry with Davy's lamps, and now it replaces it almost every where, as the Davy lamps get worn out. The following shows the numbers of each sort of lamps that were in use:

—Davy lamps, 1842, 8535; 1843, 8220; 1844, 7610; 1845, 5517; 1846, 5564. Mueseler lamps, 1842, 424; 1843, 899; 1844, 1225; 1845, 3156; 1846, 5876. The number of men employed in the mines was—1839, 11,089; 1840, 10,548; 1841, 10,241; 1842, 10,788; 1843, 9358; 1844, 9661. Their daily wages averaged—1839, 1 fr. 82 c.; 1840, 1 fr. 71 c.; 1841, 1 fr. 68 c.; 1842, 1 fr. 57 c.; 1843, 1 fr. 44 c.; 1844, 1 fr. 46 c. The decline, it will be noticed, was very considerable. The quantity of coal extracted shows an annual increase; whilst, up to 1843, the total value diminished. The number of tons extracted was—1839, 757,529 77; 1840, 953,123 61; 1841, 935,583 95; 1842, 946,902 45; 1843, 966,365; 1844, 1,019,908. The value of the products was—1839, 9,952,252 fr. 43 c.; 1840, 9,205,854 fr. 35 c.; 1841, 8,952,531 fr. 09 c.; 1842, 8,621,649 fr. 07 c.; 1843, 746,763 fr. 92 c.; 1844, 8,173,333 fr. The average yield of each pit was—1839, 6870 tons; 1840, 7827 tons; 1841, 9086 tons; 1842, 9375 tons; 1843, 9474; 1844, 11,083 tons. The coal extracted in this province was consumed in Leige, Limbourg, France, and Holland. France received by the Meuse, in 1843, 73,259 tons; 1844, 61,719 tons; Holland, in 1843, 72,707 tons; 1844, 65,025 tons. The selling price underwont a decline, as will be seen from the following statement of the average cost per ton of coal, gras and maigre:—1839, 14 fr. 81 c. gras, 9 fr. 16 c. maig.; 1840, 11 fr. 56 c.—8 fr. 18 c.; 1844, 19 fr. 58 c.—7 fr. 18 c.; 1842, 9 fr. 54 c.—7 fr. 88 c.; 1843, 9 fr. 17 c.—6 fr. 77 c.; 1844, 8 fr. 90 c.—7 fr. 07 c. 1845, it begun to carry on a formidable rivalry with Davy's lamps, and

[To be continued in next week's Mining Journal.]

ACCIDENTS.

Wheal Mary Consols, St. Noot.—James Trembath, having blasted a hole at the bottom of a sink, in the 60 fm. level, went down too quickly after the explosion, to examine the effects of the blast, when the deleterious vapour caused his death by suffocation.

Consols Mine.—A scale of ground fell upon J. Nichollas, and killed him. Wechesbury.—J. Ramsdale was killed by an explosion at Mr. Bussell's Colliery: it appears that the men were proceeding to their work, and the "doggy," as usual, was trying whether or not there was any danger, when he discovered the presence of the sulphur; but, before he could screw his safety-lamp, the explosion took place, and he and the unfortunate deceased were blown away for several yards against some doors in the pit. The "doggy" was not seriously injured, and immediately reascended the pit with the other workmen until the sulphur cleared away.

Hately Heath, near West Bromwich.—M. Banner, aged 11 years, fell down a shaft, and was killed.

Machinery Accident at Smethwich.—On the morning of Tuesday last, as a man, named Joseph Bloxledge, employed as a fitter at the London Works, was in the act of placing a plate of iron underneath a corrugating machine, in order that it might undergo that process, his right hand accidentally came in contact with the dies of the machine, and lacerated it in a frightful manner, and a finger was completely torn off; the poor fellow had his hand amputated, and now lies in a painful state.

Rosehall Colliery, Lanarshire.—The body of Mr. D. Errington, viewer to Messrs. Addie and Miller, ironmasters, was found at the bottom of No. 3 pit at this colliery, and the cage in which the men descend standing upon the top of it: as he had previously determined to ascend the shaft, it is supposed he had either become entangled with the cage, or had laid hold upon it when ascending; and, not being able to retain his hold, had fallen to the bottom, and was killed by the fall. He was skilful in his profession, and is deservedly regretted by a numerous circle o

Porto Bello, Wolverhampion.—J. Jones was killed by an explosion here. Phanix Colliery, near Burslem.—J. Turnock having prepared a blast, and, seeing that the powder did not go off, returned to the spot, and instead of lighting another match lighted the old one, which being burnt down to the powder caused the explosion to take place before he had time to remove from the spot; the fail of coal came down upon him, and killed him almost instantaneously.

Brown Hills, near Burslem.—N. Farnworth, by a sudden jerk, whilst ascending a shaft at the Newfield Colliery, was thrown out of the corf, and fell to the bottom of the pit, a distance of 70 yards; he received such injuries on the head that he died in about two hours afterwards.

Dudley.—As S. Bryan, a stone miner, was preparing to explode some guupowder in the pit of Mesarcs. Blackwood, at the Dock, about a ton of stone fell, and killed him on the spot.

A miner, named Frac, aged 46, and father of six children, descended in the lignite mine of St. André de Glérargues (Gard) to seek some tools which had been left there two months before; as he did not return, another mas went down, and successively two others, none of whom came back; at last a fifth went down, but with the precaution of a rope being tied round his waist; as he also did not return, the persons above hauled him up, when he was discovered to be lifeless—with care he was soon recovered, but the others perished.

A Desapput Bad Leo Curre or Holloway's Ourment and Phild.—

A DREADFUL BAD LEG CURED BY HOLLOWAY'S OINTRIENT AND PHAMIT. W. Arnsby, Ayston Tollgate, Uppingham, had been very grievously affilted number of years with a dreadfully bad leg, which rendered him unable to walk without the state of the sta

THE STATE OF THE PARTY OF THE P

RECAL SPLENDOUR FROM ROYAL WASTE.

To the Times, of August 24, quoting the Globe, is a bill of fare, comprising the expenditure of the Royal household for the year 1846; from the following items of which, invaluable in a statistic point of view, we are enabled to present a continuation of the novelty for the inspection of the anxious.—The expenditure for wax candles is 1917; lamps, 4166; tallow candles, 6794.—total expense for one year's lighting, 67624. Again, we take the following items:—Butchers' meat, 94721; poultry, &c., 3632. fish, 19794. Now, from the experiments and researches of Mr. Radley, on the utility and application of culinary refuse to the production of gases for illumination, for which he secured her Majesty's Royal Letters Patent in 1845, it appears that the culinary refuse of the Royal household, and the same may be inferred of the residences of the noble and wealthy, would yield sufficient oil gas to illuminate brilliantly the entire establishment producing it. He finds, by observations, that, in the domestic routine of such establishments, the proportion of refuse from each of the three above items is—one-fifth of butchers' meat; one-fourth of poultry (nearly); and one-hird of fish (nearly). His experiments on the large scale indicate the volumes of rich and pure oil gas from each ton—

1 ton (2240 lbs.) of poultry "12,400"

1 ton (2240 lbs.) of poultry "12,400"

1 ton (2240 lbs.) of fish "7640"

Now, if we assume that her Majesty's purveyors charge 20s, for 25 lbs. of meat, on the average; and 20s, for 20 lbs. of poultry; and 20s, for 30 lbs. of fish—we arrive at these data;—

Butchers' meat, 94721. × 25 lbs. = 236,800 lbs. of meat, of which one-fifth is culinary refuse = 47,360 lbs. = 21 tons.

Fish, 19794. × 30 lbs. = 59,370 + 3 = 19,790 lbs., or 9 tons refuse.

Then 21 tons butchers' meat refuse, by 16,560 cable feet, per ton, equal to 347,760 seconds.

LITERARY NOTICES.

The True Cure for Ireland—the Decelopment of her Industry; being a Letter to the Right Hon. Lord J. Russell, M.P., by the Rev. G. H. StonDarx, A.M. With a notice of the Iruh Ameloration Society, on the Plan of Mr. J. W. Rogers, C.E. London: T. W. Saunders, Charing Cross, 1847.

Notvithstanding the numerous prescriptions which are continually published, and which are to prove, if adopted, a panaeea for all the ills of Ireland, we hall their appearance as tending, at length, to lead the landowners, or the executive, or both, to adopt such measures as will lead to the full development of the riches of her soil, and the advancement and happiness of the people. The author of the letter under notice, appears to us to have taken up no new poettion; but he expresses himself in language calculated to impress his subject strongly on the minds of his readers, and render his appeal not in vain. His principal argument is, that Ireland needs the development of her industry (a theme of all writers on the subject for the last 20 years), to the varies branches of which he alludes, such as her fisheries, the manufacture of peat charcoal, the culture and manufacture of flax, &c. With respect to the production of peat, and the consequent reclamation of 3,000,000 acres of the waste lands of Ireland, he enters more at length, giving extracts from the plan of Mr. J. W. Rogers, of Dublin, as published by Ridgway: this work we have before noticed at length; it shows how the bogs of Ireland, being for the most part in elevated positions, can be easily cleared and drained, brought into successive cultivation, as patch after patch is cleared, and where the homestend of the peasant farmer would take the place of the now sterile log; while, during the operations, a valuable article of commerce would be produced, returning a large profit on the capital employed, and rendering great benefits to the iron trade—as peat charcoal, containing no sulphur, preduces a most superior description of iron, when used either in smelting

capital of 600,000t, besides a provision for the peasantry, earned by their own labour. The pumphlet is well worth attentive perusal.

An Ansser to Lord G. Bentinck's Address to the Electors of the Borough of King's Lynn, on the Eve of the General Election of 1847. By "PLAIS FACTS." Smith & Elder, Cornhill. We have received the above pamphlet, which has just issued from the press. In it the author traces the progress made in free-trade principles for some years, more particularly as leading to that crowning measure—the repeal of the corn laws. To an observation of his lordship's, in which he prides himself "for not having been one of those who violated every political principle declared or implied, on which six years ago they sought has obtained the confidence of their countrymen," it is asked, "does he suppose that he beneet, inward conviction of a man is to be sacrified to any opinions which he may have entertained six years ago? Is a representative, more particularly a Minister, who is responsible to the whole country, to say that I was an advocate for protection, but circumstances have convinced me of my error—nevertheless, I must act upon my former principles, although they are against my conscience, and injurious to the welfare of my fellow countrymen." These are precisely the arguments Bentinck and his clique have used to Sir E. Peel, whose measures were, doubtless, brought about under the thorough conviction, that society was ripe for the change, and that further delays would be dangenous. We have not space to extract largely, but recommend the perual of the passable that year of the passable that year of the arguments which must remain manawerable by the opponents of free-trade, is the fact, that in a list the nature of the provision of the angument which must remain manawerable by the opponents of free-trade, is the fact, that in a list, the revenue had increased to the enormous sum of 176,309. There are value cheer statistical state, by which the author's views are supported.

ther statistical data, by which the author's views are supported.

Thisgue Missiko in Asumica.—On the north side of Maurice River Creek, New Jersey, the meadows and cedar swamps, as far up as the fast land, are illed with buried cedars to an unknown depth. In 1814, or 1815, an attempt ras made to sink a well curb near Dennis Creek landing; but after encountering nuch difficulty in cutting through a number of logs, the workmen were at last ompelled to give up the attempt, by finding, at the depth of 20 ft., a compact asses of cedar logs. It is a constant business near Dennis Creek to "mine cedar hingles." This is done by probing the soft mud of the swamps with poles, for the purpose of discovering buried cedar timber; and when a log is found, he mud is cleared off, the log cut up into proper lengths with a long one-maddel saw, and these lengths split up into shingles and carried out of the wamp ready for sale—this kind of work gives constant employment to a large number of hands. The trees found are from 4 to 5 ft. in dismeter—they lie in a very noneable position, and some of them seem to have been buried for exert. swamp ready for sale—this kind of work gives constant employment to a large number of hands. The trees found are from 4 to 5 ft. in diameter—they lie in every possible position, and some of them seem to have been buried for centuries. Thus, stumps of trees which have grown to a greater age, and which have been decaying a century, are found standing in the place in which they grew, while the trunks of very aged cedars are lying horizontally under their roots. One of these instances is thus described in a manuscript from Dr. Beesley, of Dunnis Creek, who has himself "mined" many thousand cedar shingles, and is now engaged in the business. "I have in my mine a cedar some 2½ ft. over, under a large cedar stump, 6 ft. in dismeter. Upon counting the annual growths of the stump, I found there were 30 of them in an inch, so that there were 1080 in the 3 ft. from the centre to the outside of the tree—the stump must thus have been 1080 years in growing. To all appearances the tree to which it belonged has been dead for centuries; for after a stump in these mendows decays down to the wet, there is no more decay—none, at least, that is perceptible. Now, we have 1080 years for the growth of the stump has 500 for its decay, and 500 for the growth of the stump, and 500 for the growth of the stump, and 500 for the growth of the stump, and 500 for the which the stump belonged, sprouted. We are thus carried back for the term of perhaps 2000 years, of which 1500 are determined, beyond question, by the growth of the trees." The better opinion is, that these trees have gradually sunk through the soft mud of the swamps, after laving attained their growth and fallen; many, however, have decayed in their creet position, for the swamps are full of stump-situating anthey graw, Within a short distance of the mouth of Dennis Creek, and about three miles from any growing fimber, can be seen at low water, in the bed of the stream, numerous cedar and pine stumps, about 6 ft. below the surface, and near the odge of the live swamps they become

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

BABRISTOWN.—The 18th new list worth about 101 per fm.; the blads in the north adds of the level works arather better; the wines sinking between the control of the level works and the state of the worth about 18th, per fm.; the words and the worth about 18th, per fm.; the words words about 18th, per fm.; the words and 1 have no doubt, as noon as wag et; if down, we shall all presented on the title. We shall complete the collar, and commence sinking at the surface, also above, 1 have adverted the title. We shall complete the collar, and commence sinking at the surface, also above, 1 have short a better account from the 18th, white the per fm.; the pitch in the bottom level, east and word of the sump-wines, is worth each 900 per fm. In the 80 fathom level east, the lode is ff. wide, and worth 18th per fm.; the pitch in the bottom level, east and word of the sump-wines, is worth acts 900 per fm. In the 80 fathom level east, the lode is still 2 ft. wides—good work. There is no alteration in the 56 fm. level east, the lode is still 2 ft. wides—good work. There is no alteration in the 56 fm. level east, the lode is still 2 ft. wides—good work. There is no alteration in the 56 fm. level east, the lode is still 2 ft. wides—good work. There is no alteration in the 56 fm. level east, the lode is still 2 ft. wides—good work. There is no alteration in the 56 fm. level east, where we have some the level east of the good ended to the proper level east of the good ended to the proper level east of the good ended to the proper level east of the good ended to the proper level east of the good ended to the proper level east of the good ended to the proper level east of the good ended to the level east of the good ended to the proper level east of the good ended to the level east of the good ended to the level east of the good ended to the level east of the level east o

is neaved; in the same level, driven west from cross-cut, we intersected a cross-course, and have driven south upon it 2½ fms, but have not yet discovered the western part of the lode. In the deep adit level the lode is 1½ ft. wide, composed of spar and soft killas, with some spots of lead ore. In the shallow adit level the lode is 2 ft. wide, composed of mundic, can, and spar, and branches of lead ore. The men in the engine shaft have been engaged since Monday in putting in their sinking lift.—August 24.

EAST CROWNDALE.—We have cut the north lode, in the Rix Hill adillevel, and, I am glad to say, it is of a most promising appearance; it is about of ft. wide, composed of peach, capel, mundic, and most excellent work for tunin fact, the whole of the lode is saving work. We shall now proceed to hole the shaft sunk on the course of the lode to the adit level, for ventilation, and convenience of drawing the staff; after this is completed, we shall proceed to cut the two lodes, atill to the south—the middle lode being considered the main lode; in fact, I believe these lodes, in about 8 or 10 fms. under our adit level, will concentrate; and I confidently expect, that you have got a continuation of rich tin ground for upwards of 150 fms. in length. I came to this conclusion, from the extensive workings of the old men at the surface, and from our having cut a rich lode in the adit level, under all their operations. I am glad to state, that the appearance of the copper lode, cut in our engine-shaft, continues to improve; is about 2 ft. wide, composed of copper, mundic, capel, peach, and spar. We look forward to good returns from this lode, when it is cut in the 50 fm. lavel, from the very striking insprovement in its character the deeper we go; we have sunk, in the past week, about 3 ft.—the ground under the lode having become much harder, makes sinking difficult and spare. Our engine and pitwork are all in good order.—August 21.—[In our Journal of the 21st inst., by mustake, we printed the word "unfavourable," instead of "favourable," in regard to the ground alnking through in the engine-shaft.] EAST CROWNDALE.—We have cut the north lode, in the Rix Hill adil

EAST TAMAR CONSOLS.—The lode in Harcison's shaft is 2 ft. wide—fluor-spar and ore—a very kindly lode. The lode in the 54 fm. level north is very much improved; it is 2 ft. wide, work of a good quality; in the same level south, the lode is 20 in. wide—eaving work. The lode in the 46 north is 16 in. wide—fluor-spar and silven-lead ore; the lode in the ame level south is 16 in. wide—work of a good quality. Charlotte's is just the same as last reported on.—August 24. GREAT MICHELL CONSOLS.—In the 85 fm. level east, the lode is producing good stones of ere; in this level west, the lode is composed of mundic, spar, and stones of ore. In the winze sinking below the 22 fm. level, west of the origine-shaft, the lode continues to produce some saving work.—Aug. 24. GUNNIS LAKE.—At Chilaworthy, the lode in the 25 fm. level, west of Bailey's shaft, is 2 ft. wide; and in this level west, the lode is 2 ft. wide, composed of spar, mundic, and ore. In the 12 fm. level west, we are still driving north.—August 24.

GUNNIS LARE.—At Chilsworthy, the lote in the 25 fm. level, east of Bailey's shaft, is 2 ft. wide; and in this level west, the lode is 2 ft. wide, composed of spar, mundic, and ere. In the 12 fm. level west, we are still driving north.—August 24.

GWINEAR CONSOLS.—The ore ground is looking quite as well as last reported, and, in addition, have cut it 5 fms. further east, by rising in the base of the addit, a course of ore 2 ft. wide. Tredinnic's look is still asring work for tim. We set the engine-house to build, and engine-shaft to sink pasterday; also a pitch in the back of the addit, west of Stephens's is the last shaft cleared up.—August 21.

GREAT WHEAL MARTHA.—The 40 fm. level east is now driven 4 fm: 4 ft. 8 in.; the lode is still divided by the horse of killas. We are carrying the south part, which is 6 ft. big.—I ft. 6 in. of which is sumide and copper united, the remaining part being capel and spar. In the western end, we have driven 4 fms. I ft. 6 in., it be lode here is 10 ft. big, and we are carrying 5 ft. of the south part, being composed of spar and mundic, with white prian heads, spotied with copper, and presenting a better appearance now than 1 have seen since we first commanced driving.—August 21.

HAWKMOOR.—The lode in the 15 fm. lovel, east of Hitchina's shaft, is about 18 in. wide, and unproductive.—August 24.

HEIGNSTON DOWN CONSOLS.—The lode in Balley's engine-shaft is 3 ft. wide—gossan, spar, and tin, saving work. In the 20 fm. level east, the lode is 3 ft. wide, composed of gossan, spar, and tin, saving work. In the 20 fm. level east, the lode is 3 ft. wide, composed of spar, killas, and spots of fine great cross-course, is 18 in. wide, composed of spar, killas, and spots of fine great cross-course, is 18 in. wide, composed of spar, killas, and spots of ore. The winze we anticipated sinking below the 10 fm. level close in the 100 fm. level shaft by its underlie south. The lode in the 100 fm. level is the lode is 12 feet wide, composed of flookan and lead, worth 20/1 per fm., with a beaut

good saving work. The castings for our plunger-lift are all arrived; we hope shortly to complete our alterations in the pitwork, and resume our sinking below the 80.

KIRKCUDBRIGHTSHIRE.—The engine-shatt, sinking under the 40 fm. level, is 5 fms.—the lode rather irregular, say 2½ ft. wide, yielding about one-fourth of a ton of lead per fm.—ground favourable for sinking. The lode in the 40 end west is large, producing 1½ ton per fm. The lode in the 80 end west continues poor. The lede in the 20 end is small, but little more than 1 ft. wide, producing three-fourths of a top per fm. The winze anking under the 30 fm. level, on the junction west of the shaft, has not proved as the lode did at this place; in the level, at present, it is more inviting. The winze east being at the end of the lead ground, we are now exploring towards the shaft, with a view to stope this ore ground. The stopes in the beak of the 20 do not appear to alter much. On the dressing floor, I regret we have not hands to return the ores as fast as I could wish; in the meantime, we are making sharp inquiries for suitable helpers.—August 21.

LEWIS.—The lode in the 60 east is 5 ft. wide, and worth 17l. per fm. for tin. The men that were rising in the back of the 60, west of the sump whim-shaft, against Caple's winze, have holed to the said winze, and are now preparing to sink the engine-shaft below the 60 fm. level. The lode in the 60 east is 4 ft. wide, and worth 9l. per fm. for tin, the lode in the 50 east, on the south bramch, is 10 ft. wide, and worth 9l. per fm. The lode in the 60 east is 2½ ft. wide, and worth 9l. per fm. The lode in the 60 east is 2½ ft. wide, and worth 9l. per fm. for tin; the lode of assist 2½ ft. wide, and worth 9l. per fm. to the wide and worth 9l. per fm. for tin; in the occasion, south from the sump whim-shaft, in the 10 fm. level, we have cut a new lode, 10 lm. wide, and worth 6l. per fm. for tin, and very kindly; we are driving on the course of this lode, at 25s. per fm. The lode in Praed's shaft, sinking under the 8

very kindly; we are driving on the course of this lode, at 20s per int. The lode in Praced's shaft, sinking under the 8 fm, level, is 1 ft. wite, unproductive at present.—August 21.

LYDFORD CONSOLS.—The lode in the adit end is looking very favourable—much kindlier than when you were here; the leader part is about 10 in. big, and good saving work for lead, but we are not, as yet, quite clear of the capels; however, I do not think it is unkindly to see a string capel on the back of a lode—or, in other words, so near the surface—as we are; it is also very probable these capels will diminish in depth, as they seem to be smaller in the bottom of the end than in the back; and, most likely, as the capels diminish, the lead will increase. We do not take down our lode more than about once a week; and if the lode improve as much the next week as it did in the last, the prospects at Wheal Mary will be cheering—mind, I do not say it will be the case, but I have a hope. I have not, as yet, had any notice for the meeting; I hope you will not be long before you bring the matter to a close, so as to commence operations, as the concern is very kindly, and it never can have a trial before we go below our present workings, with a small outlay in the beginning, to erect the necessary machinery. I do not see (according to the appearance of the concern at present) there can be any doubt, but that every adventurer, in a short time, will receive all the money he has laid out, and doubte for it.

MENDIP HILLS.—Our operations in the slag department, during the past

the concern at present) there can be any doubt, but that every adventure, in a short time, will receive all the money he has laid out, and doubte for it.

MENDIP HILLS.—Our operations in the slag department, during the past week, have been favourable; the beds of alags, from which the top rubbleh is mow being removed, continue to extend both up and down the valley; we have some hands engaged levelling a piece of ground for the working floors, &c. Part of the castings for the blast-furnace are on the mine—I expect the remainder home in the course of a day or two. No important change has taken place underground since I last wrote you. The lode in the 88 fm. level, south of Stainsby's shaft, is composed of white spar, flookan, and spots of lead in places; the lode in the winze, sinking below this level, is about 3 ft. wide, composed of quartz, flookan, and iron ground; not quite so hard for sinking as it has been.

POLSAITH CONSOLS.—I have carefully examined this mine, and find the length of the sett, on the course of the lode, to be about 500 fms.; the lode has been opened on the back for nearly the whole length of the sett, partly by costean pits, in which the lode has a very promising appearance, varying in width from 2 to 6 ft.—composed of gossan, mixed with quartz, mundic, and flookan (or mineral blas), with rich atomes of lead, and yellow and grey copper ore. About 150 fms. south of the sorth boundary of the sett is a cross-cut adit level, driven from the Polsatin beach, shouls a fms., when the index warface, and on which it has been driven about 25 fms.—the lode varying its size from 15 to 4ft.—composed of gossan, quarts, mundis, beach, lookan, and rich atoms of lead, and below shad grey copper ore: its course is about 25 fms.—the lode varying its size from 15 to 4ft.—composed of gossan, which throughout produces a quantity of archive and out of the south of twest, and underlays went from 3t to 3ft. in a fm. About 70 fms. south of theirs another each south of vert, and underlays went from 3t to 3ft. in a fm

could be now into the basses, and time bishs its harve about 6 flast, as the left hand; two near and, a boy are driving, which will be present. South of this the lode runs, in an oblique discount of the lode. A post of 10 flows, at a margie of about 450°, and 500° to 10 flows, on the course of the lode. Both above and below this level the lode has been very productive—the deepees working being about 95°ms, below the soft is real. No oblige meableshing than a will away assuad to draw the vaters with, which prevented their working deeper. A great deal of ground here, both above on postmen, being large and well-doubled, and there will be the bear of the lotter working deeper. A great deal of ground here, both above opportune, being large and well-doubled, and there will remain, beth in the backs and bottom, some good tribute ground, now in sight. A pitch, in the back, is now working on tributs, set 36. per ton of lead, and another in the bittom, at the same price. An engine-shaft is aliking, by atx man, which will internet the lodes about 30 fms. below the addit; and a cross-cut driving, by four men, towards it from the addit level, which will be holed in about a moth. Surface of the control of the lodes in this are a continuation of the Pentire Glass tolde. There are other lodes in this act will be a so accrain their willing one, however, internets the lode before allined to, as having been wrought on in the Trebesthwick Hill. The ground is generally strought in the strip of the working, and stands without timber. In every the top of the working, and stands without timber. In every the top of the working, and stands without timber. In every the strip of the working, and stands without timber. The which I have no doubt will be found very interference of the lode in and about the evan course, as the lodes in this destrict have made best in and about the evan and the working the work of the strip of the productive of the which I have no doubt will be found very interference of the working the work of the work of the

satisfactorily.—August 24.

SOUTH WHEAL TRELAWNEY.—The engine shaft is sunk about 7 fms below the adit level; the ground in every part of it is a soft light blue killas strata, ground favourable enough for an engine-shaft. The engine fully answers one expectations in all her movements, and the water at present is less than one stroke per minute: the shaft will be continued to sink without any interruption—the machinery and pitwork having been fixed and set in motion—except to lengthen the lift as they progress downward.—August 21.

one stroke per minute: the shaft, will be continued to sink without any interruption—the machinery and pitwork having been fixed and set in motion—accept to lengthen the lift as they progress downward.—August 21.

TINCROFT.—The lode in the 100 fm. level, cust of new engine shaft, is 4ft-wide, orey throughout, worth 13L per fm.; west end of same level worth 10L per fm. The lode in the 90 east 4ft. wide, producing some ore and kindly; the 90 west, on the north lode, is worth 12L per fm.; the 90 east on the north lode, is worth 12L per fm.; the 90 east on the north lode, is the 80 east is 2ft. wide, producing tinsteaff, worth about 3L per fm.; the lode in the 80 east is 2ft. wide, producing tinsteaff, worth about 3L per fm.; the lode in the 80 east is 2ft. wide, producing tinsteaff, worth about 3L per fm.; the lode in the 80 east is 2ft. wide, producing tinsteaff, worth about 8L per fm.; the lode in the 80 east is 2ft. wide, producing some tinstuff and kindly; the 70 and 50 west are suspended, being near the boundary. The lode in the 60 west is 20 in. wide, producing some ore and kindly. At Palmer's, we are driving the 80 fm. level from the south to the anorth lode. The lode in the 70 end) is 2ft. wide, worth 10L per fm. The tribute department continues much the 3mm, on the whole, as for some time past. The south mine, on Chappel's lode, continues to look well. Highburrow lode, from the different levels, winzes, and pitches, continues to yield fair quality tinstuff. We expect to set Wheal Providence engine to work, to fork below the adit in the course of this week.—August 16.

TRELEIGH CONSOLS.—In the 100 fm. level, east of Christoe's, the lode is 20 inches wide—very little mineral, but has a kindly appearance. In the winze below the 100 fm. level, the lode is 18 in. wide, producing some ore—not to value. In the 100 cross-cut, north of Garden's, we have driven about 3\$ft fms., and hope next week to give a more favourable account of this level. In the 90, west of Garden's, we have suspended driving on the branch, i

with spots of ore in places. In the 54 fm. level, east of this shaft, the lode is 18 in. wide, and unproductive; in the cross-cut south, in this level, the ground is rather hard for driving.—August 24.

18 in. wide, and unproductive; in the cross-cut south, in this level, the ground is rather hard for driving.—August 24.

WEST WHEAL TREASURY.—I am happy to inform you, that the expectation held out in our superintendent's report, under date the 3d July, has (in respect to the deepest part of the mine) been this day realised, by the intersection of a course of ore in the 50 fm. level; I, therefore, deem it right to make you acquainted with this improvement, by the first post, as it is the source to which we mainly look for proceeds. I hope it may prove as continuous as it was in the 40.—August 25.—[The foregoing report has been issued by the purser. We are pleased to see such early advice given of improvements, as it precludes advantage being taken of absent or distant helders.]

WHEAL ADAMS.—The western silver-load lode, in the rise, in the 50 fm. level, is 2 ft. wide, and worth 6L per fm.; the ground in the eastern rise is far-vourable for working; the lode here is split into branches, as we anticipated: we are about 2 fms. from the deposit of reddish-brown blende, of which we are now in want. The lode in the 40 fm. level winze is 4ft. wide, and worth 12l. per fm.; the western lode, in the south end, has not been taken down. The same remarks are applicable to the lode in the 26 fm. level south; the lode in the lovel, on the castern course, is 1 ft. wide, producing stones of lead; the lode in the torthermaset end still wears a promising appearance. We have resumed working on the western lode, in the 18 fm. level, which is producing a fair quantity of orey work. The masonry of the crusher-house is completed at last, and

we have commenced dressing jack; it is, however, but right to observe, that the heap on the surface is mixed with a large proportion of quarts and hornstone, being the refuse from several cargoes—so that it will not only require a longer time in dressing, but it will be found expensive; therefore we must depend on our own resources in raising to procure a fair quality, and to propare it for market with the necessary dispatch. We sampled, on Saturday last, a parcel of lead ore, computed 30 tons—samples of which are sent to the different purchasers of lead ores.—August 24.

WHEAL ANDERTON.—We are still looking as well as ever, and are sinking down to the 70 fm. level, with 9 men, with all dispatch; surface water, I regret to say, is so scarce, that we cannot get on with returning our tin for market, and hence the necessity, as indeed was apparent some time since, after making our discovery, and returns of tinstuff, of the necessity of extra steam-power. I am happy to say, that we are fast progressing; the new engine for drawing and stamping is advancing, as is the engine-house and other surface work, so that I hope soon to obtain adequate power to meet the difficulties which at present we have to contend with, in returning our ore into cash—both the 60 fm. level ends, east and west, look well, as also the stopes.—August 23.

WHEAL ANNA MARIA.—We have laid open on three large lodes at the

ends, east and west, look well, as also the stopes.—August 23.

WHEAL ANNA MARIA.—We have laid open on three large lodes at the surface—the south lode is 5 ft. wide, with a fine gossan about 2 ft. deep on the back of it—then comes in mundie, black and yellow copper ore; we have now sunk about 2 fms from the surface; we have, in the bottom of this shaft, very rich stones of grey and yellow copper ore—it is improving fast as we go down. We have, on Woon's lode, a large gossan, about 7 ft. wide; on this lode the gossan is about 4 ft. deep from the surface, then under the gossan, mundic, soft peach, and yellow copper ore, with fluor-spar—we are down on this lode about 9 ft. from the surface; we are now sinking on this lode; it is thought by all that have seen it, that it will make a good bunch of copper in 3 or 4 fms. in sinking; there is a beautiful killse on the flat wall, and a fine flookan on the other wall. Looking at the present appearance, it is thought that it will make a rich mine in a very short time.—Dunsford, Aug. 25.

WHEAL ANN.—In driving the cross-cut from the wood-shaft, we cut

sinking; there is a beautiful killss on the flat wall, and a fine flockan on the other wall. Looking at the present appearance, it is thought that it will make a rich mine in a very short time.—Dunsford, Aug. 25.

WHEAL ANN.—In driving the cross-cut from the wood-shaft, we cut through a good branch of silver-lead ore; we have also cut through a good branch of silver-lead ore; we have also cut through a good branch of copper and lead ore; this end is looking very kindly for making a good bunch of copper and lead ore; this end is looking very kindly for making a good bunch of copper ore. We have been costeaning for the great lead lode, which runs through this set about half a mile to the north of the large barytes lode: here we have a fine gossan lode, about 8 ft. from the surface; and there are some very fine stones of silver-lead ore in the pit, and, I have no doubt, will make lead on sinking a little deeper. Our prospects are cheering.—Bridford, Aug. 25.

WHEAL BARBARA.—It is with pleasure that I communicate to you the improvement that has taken place in the mine, since my last report. Yesterday we cut the lode, and found a very considerable change in the ground; our former price given for excavating, before we cut the lode, was 104. 10s. per fm.—our present price for driving is 34. 10s. The lode presents a very favourable appearance, such as seldom, or ever, fails of being productive, when effectually prosecuted; it is composed of a beautiful spar, impregnated with spots of lead, copper, mundic, and jack, with a fine flockan by its side; and I feel confident, that as soon as we get under the ore ground, which we discovered in the adit, a great improvement will be effected. In consequence of our sinking our engine-shaft between the two bunches of lead in bottom of adit, we have to drive east and west on the course of the lode. Stronger proofs of this than our present appearances are seldom met with; and a little time and money, will, I think, realise the expectations of the shareholders, and fully satisfy ever

of the property.

WHEAL LOUISA.—Since writing you last, the ground in the engine-shaft is greatly improved; and I am much pleased to inform you, that we are progressing rapidly towards our main object, being down 6 fms. 3 ft. under the 20 fm. level. I hope to complete the sinking of the shaft to the 30 fm. level by the end of next month. We have gone through several promising branches leading into the lode, which are indications of the highest character.—Aug. 24.

FOREIGN MINES.

Mines.	No. of men. To	ons ore. Per c	t. Tons copper.
Raipas	28	99 6	5.40
United Mines			
Ryper's		15 6	0.90
Maneur's	4	4 5	0.20
Michell's			
Old Mine	10	15 6	0.90
Wilson's	4	4 7	0.28
Powder House	· · · · 2 · · · · ·	2 5	0.10
Quænvig			
Carl Johan's	2	2 4	0.08
Cole's	2	3 4	0.12
WILL DIED ENDROLL FOR THE	THE PARTY OF	-	Charles and the same
Total	40	105	11.00

Mining Report, from the 15th July to 3d August.

Roipas. -The result of our operations has hitherto been successful, and the prespects continue highly flattering. We fully expect the improvements which have latterly taker place at this mine will enable us to increase both the quality and quantity of the monthly returns. The stock of ore collected at the mine will, in a short time, be delivered to the smelting house, and I hope the assays will be more satisfactory than for some time past. United Mines.—The produce of the stopes continues good and regular, and the pres ects are equally promising. Almost all the halvans and picking stuff are now dr nd returned to the smelting-house.

pects are equally promising. Almost all the halvans and picking stuff are now dressed, and returned to the smelting-house.

Reper's.—The progress made in exploring the new lodes has been slow, but satisfactory, and at present hold out a promise of permanent returns on a limited scales. The quality of the ore is, however, superior to that produced from other parts of the mine.

Mancar's.—The four men employed here make but little progress through the hard compact rock composing the lode. The ore continues equally good, and appears gradually increasing in quantity: the returns, however, continue comparatively low, on account of the unfavourable nature of the ground for excavating.

Michell's.—Since recommencing the smelting operations, a scarcity of hands has rendered it advisable to suspend the prosecution of the shallow level for the present. The tributers continue to make fair returns.

Old Mine.—The tributers have here also been tolerably successful, and continue to work with spirit; the interest taken in their work evidently increases, as they become more experienced, and conversant with this new system of working.

Witton's.—The appearance of the several lodes is again more fluctuating, and the returns have, in consequence, also been diminished.

Powder House.—The dock has again improved, and the prospects are better than at the commencement of the present operations.

Quantity.—A scarcity of hands also compels us to suspend operations here for a short time; the returns have been small, but we hope profitable.

**Corl **Johan's has yieldeds a small quantity of tolerable good ore, but the prospects on the whole are less favourable than before.

**Corl **Lordan's has pickleds a small quantity of tolerable good ore, but the prospects on the whole are less favourable than before.

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other part, in the hope of making a fresh discovery. The usuar grouvery note with of forwarded with next post.

IMPERIAD. BRAZILIAN MINES.—Gongo Soco, June 12.—Gongo.—Our gold troop, commanded by Capt. Luke, and escorted by the miner, Perprase, left for Rio on the 5th inst., with sufficient annuals to bring the new surgeon and miners. The remittance amounts to but 32 lbs. 11 css. 1 dwt. 3 grs. of gold dust, exclusive of the duty of 10 per cent., paid here, and is contained in one box.

Brownel.—Within the incredibly short space of three weeks, our wafer wheel at Catta Prota has been taken to pieces, removed to Bananial, with all its pumping apparatus, and the whole reconstructed and put into perfect working order. A few portions, also, of the old apparatus, which we could not rench until the mine had been somewhat drained, are now in course of repair; and on Monday next (the 14th inst.), if not indeed this evening, we shall have an effective pumping force, equal to three 16-inch and one 14-inch pumps, at work, and which, I have no doubt whatever, will fully master the streaghest have to encounter. I can escreely hope that my next respects will advise you of the mine being thoroughly drained; but, unless some unforseen obstacle should present itself, we have lively hopes of reaching the gold vein, left by the former owners, by the end of this month. Capts. Blamey and Pengilley, with every member of our establishment at Bananai, morit my warmoet approbation.

Gongo.—Our 14 fm. level, cast from Duval's south cross-cut, has afforded some good samples on the Cambo formation; and, for convenience of working it, a new shaft has been suns from the surface, and which was completed to the required dispth in the short been accounted.—Gold Workings, from the 3d to the 12th June (9 days), 2 lbs. 11 on 30 10 dvts.

NATIONAL BRAZILIAN MINES.—Cuide, May 37.—Capt. Hitchin has but this mo

unalisted.—Good Workings, from the 24 to the 12th June to carsy, rise. It of 12th June to carsy, rise. It of 12th June to carsy, rise. It of 12th June to furnish a report for this post—a circumstance which I much regret, inasmach as he would have condrined, by more minute information, the present cheering state, and promising future productiveness, of our new mine. We have a strong reason for our sanguine expectations of the productive rature of the Serrote and Quebra Canha stone, from the circumstance of the surface rocks and refuse staff alone giving us the return which we have obtained; for, as yet, we have not tonched the main tode, and have only taken away the above-stacked rocks and stuff. These, however, will soon be exhausted, and, upon the arrival of an addition to

ar present small force, we shall co

tion man rous. Should our west-grounded expectations, and carries hope, he realised, a larger produce than ever this mine has hitherto efferded, will be the undombosed rearity. Produce, for nine days, 5 mks. 0 cs. 7 olts. 8 grs.

ST. JOHN DEL REY MINES.—Morro Veño, fane 8.—Produce for May, 13, 403 olts.—138 lis. 9 css. 3 dvrs. 15 grs. Tray.—reported by Mr. Sinyth to be from 2018 4-10th form of ors, yielding 4:90 cits per ton. There has been received size from Gats Brance, produce of May, 151-48, and from Feraos, 45:6—making a total of 13,500 cits.—130 list. 7 css. 17 dvrs. 12 grs. Tray.—There is no desubt that this gold has been obstand; just how it happens that a menth, in which the Lyon 30-head stamps have been considered; just how it happens that a menth, in which the Lyon 30-head stamps have been considered great, even if the whole 71-heads had been in full play, is a point which puzzles me—which puzzles capt. Treloar—and whereof Mr. Smyth himself can given to astifactory solution. Mr. Smyth away he obtained this produce from 2918 4-10th tons of ore, which he says has been all stamped, which was decidedly not richer than usual, and yielded 4:70 oits per ton. Captain Treloar shows, that he furnished 3598 tons of ore, which he says has been all stamped, which was decidedly not richer than usual, and which, divided into the total amount of gold obtained, would show the more probable value of 47-100ths oits, per ton. The different modes of computing the number of tons of ore sent up from the mine, and adopted respectively by Captain Treloar and Mr. Smyth, render the subject more perplexing than it need be, and I must endeavour to get them both to adopt one standard in future. The improvement in the Lyon stamps ought to enable us to stamp in future 3400 to 3500 tons of ore per month —giving, at 4 oits, per tan, 13,600 to 14,000 oits, of old for our month's produce. The estimate furnished by Mr. Herring, in his letter of the 5th May, was, if ear, much too sanguine. Captain Treloar as we cannot expect, with our pr

MINING NOTABILIA

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

In our last week's Number, under the above head, may be observed, "Holmbush is looking very gloomy," &c.; and in another column, that an improvement had taken place. Lest this apparent contradiction may be considered as arising from some interested motive, we would observe, by way of explanation, that all the information obtained under the above head are extracts from letters of correspondents, on whom we place great reliance, from their being known to us as experienced and practical men residing in the respective localities, as well as our confidence in their veracity; and, should there be any discrepancy in those notices, and other official reports, it must be considered that alterations in the mines have subsequently taken place. Our intention, in publishing these extracts being to afford all information we possess (proor con.), for the benefit of absent shareholders; and, in the event of any incorrectness, we should feel thankful at all times to be advised, that we may ascertain if any attempt to impose upon, or mislead, us has been practised.

CALLINGTON MINES.—A splendid discovery has been made here; they have gone through the cross-course in the 70, and found the lode worth 40t per fm. In the 40 they have a very promising lode; and the Kelly Bray lode has been seen 10 fms. deeper, with every appearance of the lode making very rich in going down.

In the 40 they have a very promising lode; and the Kelly Bray lode has been seen 10 fms. deeper, with every appearance of the lode making very rich in going down.

Dyfracwa Mines.—In our last publication we adverted to these mines, which are now in the hands of enterprising adventurers, who purchased them from the proprietor of the land. The former tenants had worked these mines unfairly, by robbing the lodes wherever they could find lead—thus leaving the present occupiers to open lodes in a working manner; here, for nine months, they had nothing but expenditure in taking away the matrix from those lodes from which the lead had been robbed. Since then, they have been working the levels, &c., in a workman-like manner, and receiving their fair yield of produce, which has been rather above one ton to the fathom. This prudential course has led to the good results, and the discovery, we noticed in our last Journal. With an average expenditure of from 50/. to 60/l, from 15 to 20 tons per month of are has been got, which has sold at Holywell at 11/l. odd a ton. As the lowest level is only 22 fms., which is not below the bed of the river, and it is found that as the miners sink the lodes increase in quantity, to 14 and 2 tons to the fathom, so the quality of the ore will become enhanced, and Dyfigwm become celebrated for its profitable returns to the shareholders. From a friend, who lately visited Montgomeryshire, we learn that there are as many hands at work on the Dyfigwm lodes as can be employed, until the shaft is sunk 10 fms. deeper, and the levels commenced under those in the 22 fm. level; this, then, will be the 32 fm. level, and it will give employment to 20 additional hands; sunk 10 fms. more, it will become the 42 fm. level, and give employment to 20 additional hands; sunk 10 fms. more, it will become the 42 fm. level, and give employment to 20 additional hands. Our friend affirms, that of the returns in the two last-mentioned levels, no doubt can exist, besides opening the great Esgair-galid lode from 40 to

place here, both in the copper and tin lodes, which has caused an advance in the price of the shares here.

Harkowbarrow Old Mink.—The mine was never in so good a state for the adventurers as at the present moment. They will be at full work again in about six weeks or two months at the furthest, by which time the whole of the new machinery will be completed ready for dressing the large quantity of tin now at grass, which is estimated as being worth from 400L to 500l. The captain (J. Paull), a man of considerable experience, has declared, that there will be no difficulty in raising 10 tons of tin per month. The sett is more extensive than any in the county; and the quality of the tin, judging from what has already been sold, and the price (45c.) it fetched, of the highest character. On the whole, therefore, I do consider myself fully justified in strongly recommending this speculation as being one of the most promising description. The adventurers have certainly had their patience a good deal tried; but that has been, in a great degree, owing to the lill-luck they have had in the accidents to the machinery, &c., &c. I do believe that; on once getting into full play again a very short period will ensure them a satisfactory return for waiting so long.

HOLMBUSH has considerably improved since my last; in the cross-course, or lead lode, they have some very good ends, which are still improving.

NORTH ROSKEAR.—I should have informed you of the improvement here; but, being unable to speak of it definitely, I delayed doing so until more had been seen—nor can I now say anything more, than their having a good lode in the 60, driving from Wheal Seton boundary, west into this sett; but, not having yet cut the south wall, I cannot state what it is worth. The sampling last week, as you are aware, was 941 tons of good quality.

TRELAWNEY.—They have cut the lode in the 52 level, worth 20l. per fin.

TRELAWNEY .- They have cut the lode in the 52 level, worth 201 per fm. WEST SETON .- There is an improvement here immediately on the verge of

WEST SETON.—There is an improvement here immediately on the verge of the eastern boundary.

WHEAL CURTIS.—The following is an extract from the letter of a shareholder, at Ashford, to the secretary, dated 23d of August:—"Yesterday, I received a letter from a friend at Camborne, informing me of Wheal Curtis engine having gone to work, and the proprietary in that neighbourhood being quite elate with soon realising a dividend-paying mine; and not only that, but will be the means of giving great employ to the miner, and advance the interests of the needy in that neighbourhood. I am very happy to say, that I am much encouraged at the prospects, and particularly when I can place confidence in a particular friend of mme, urging me to keep the little interest I have, because he has but little doubt that Wheal Curtis will be one of the first unines of the county. In order that this may be confirmed, I beg to inclose yon a short report I had sent me by my friend, an agent of from 20 to 30 years' standing. Perhaps, many of the London shareholders are not much acquainted with mining, and feel timid in speculation; but, as I am a Cornishman, and have friends at Camborne, who, I feel persuaded, would not mislead me, I have obtained the inclosed report, not only for my own satisfaction, but more particularly for those who have not the same facility as myself."—[The report referred to, dated Aug. 19, appears among our Mining Correspondence.]

South African Mining Contents.

SOUTH AFRICAN MINING COMPANY.—Letters from the Cape of Good Hope, of the 1th June, state that the parties who had been engaged to work the looks of mineral ore which have been discovered in Namaqualand, were on toard ship, awaiting a favourable wind to carry them to their destination.

BRIERLEY HILL LEVEL FURNACES.—We have pleasure in being enabled to state that one out of these three furnaces has at length been started to work, putting nearly 100 pairs of hands into employment, and it is expected that in a very short time another will be blown in.

UNITED MEXICAN MINING ASSOCIATION.

Siz.—I do not know what "Original Subscriber" means by misrepresentations, but I presume he will not attempt to deny that the United Mexican Mining Association has been in existence about 23 years, nor can he safely assert that it has paid, during the whole of that period, more than two miserable dividends—one of 7s. 6d., and the other of 5a. per share; as to having discharged what is termed auxiliary capital, simply means repaid borrowed monay; and it is a new idea altogether for a concern to take credit for paying its debts. To his statement, that I have no more right to meddle with the unclaimed dividend than I have with the money in his pocket. I beg to demury the money in his pocket may belong to himself—the unclaimed dividend (which is generally understood may never be claimed) belongs, until claimed, to the associated body; and they have as much right to use it protem, holding themselves at all times liable to pay it when (if ever) demanded, as to lend it to others to use; but, perhaps, the undertaking is in such a condition, that he thinks the money is safer in other hands. Will he have the goodness to state the description of securities taken for these large sums of 16,000l. or 20,000l., and the rate of interest paid for them. In referring to the piece of plate, if I have given pain, no one can regret it more than myself, and I hereby make the association are voluminous and valuable, is agreed; but their rolume and value has not increased so much during the last 12 months as to require their removal from the quiet office in Winchester-street to an expensive house in Finsbury-circus, on which 300l. has been expended in fitting up. As respects his gratuitous advice, that I should sell my shares, I will, with his permission, follow my own, unless he is able and feels disposed to repay me the thousands I lost originally in the undertaking. The saving of 200l. per annum is something like the two shells of an oyster: the former representative of the company in Mexico had a salary of 1700l. sterling per annum

at a distance.—AN UNFORTUNATE SHAREHOLDER: London, August 23.

[We insert the above communication, as giving "An Unfortunate Shareholder" the full opportunity of expressing his sentiments in reply to "Original Subscriber," reminding him, however, that he has not stated the facts of the case precisely as they are. On reference to the Mining Journal of Aug. 1, 1846, he will find, in our report of the meeting, held on July 29, that the new office created involved a salary of only 400L per annum, and that a decided saving was still effected of 200L per annum. We have so often expressed our opinion of the policy, or rather impolicy, of forcing dividends of small amounts, and leaving the directors without funds to meet an emergency, that there is no occasion to repeat our arguments. We are still of opinion that, under all the circumstances, more particularly the present unsettled state of Mexico, the directors were perfectly justified in the course adopted, and which, we have no doubt, will be evident in the results—at the same time, we could wish, for the sake of the shareholders, that a more fortunate state of things had existed, under which a dividend might have been paid.]

GREEN VALLEY MINE.

"A Sufferer" is hereby informed, that the undersigned never had "a large sum in hand" belonging to the above mine; but that the funds applicable for another dividend (one has been paid) were withdrawn from the bank, and placed at interest, until the action against Mr. Skewes, for the amount of his calls, should be settled, and a final dividend declared: however, at a meeting of the committee, on the 18th inst., it was agreed to call in the money at interest, and divide it without reference to Mr. Skewes's debt.

Listeard, 8 mo. 23.

TIN BOUNDS.

ing of the committee, on the 18th inst., it was agreed to call in the money at interest, and divide it without reference to Mr. Skewes's debt.

Liskeard, 8 sec. 23.

TIN BOUNDS.

TO THE REFORD OF THE WEST BRITON.

SIR.—The question put forward by your correspondent "T" (see Mining Journal of last Saturday), "What are tin bounds?" is a broad one, and the interpretation given by him is clear and manifest, and that whereon the enemies of tin bounds base their objections. Now, Sir, I repeat—the bounder makes his property legal by means of annual renewal, at least it was so considered, previous to recent decisions; but few tin bounds are legal, if a continuous working in them from the time they were cut is required; however, even admitting that they must be worked continually, and uninterruptedly, I can cite an instance where two tin bounds have been so worked, and dues paid regularly, previous to the violent and illegal breaking in of Capt. Crease (tale lessee of the duchy), and his agents. These gentlemen refused to acknowledge the tin bounds, a rule was obtained against them at the Vice-Warden's Court, and instead of meeting the bounder, they kept procrastinating until Capt. Crease turned over his lease to the duchy; thus conveniently and ecolly slipping out of the consequences which he knew were inevitable—to refund the moneys belonging to the bounder honestly, fairly, and legally, and according to "Ts" opinion. Again, referring to Rogers v. Brenton's case, the first trial was given in the plaintiff's or bounder's favour—the judge then presiding, and the jury then acting, seeing clearly that it in bounds were legal, and that the bounders (Canon Rogers, and Lady Basset) had fully and satisfactorily substantiated their claim. Lord Denman, therefore, did but deliver his judgment from reading over the evidences then delivered, and not from hearing the case personally. We are all aware that it is a singular property, and perhaps the custom of annual remeaval is singular; but are we not aware also that many other sing

all accertained. Hitherto the underground operations have been confined to exploring, and ascertaining the extent of the deposits—connecting the two levels by winzes or perpendicular passages—sinking shafts, and laying out the mine in such a manner as to render it more readily available for stoping the orey ground; but this having been already carried on to an extent sufficient to lay open a vast field of the meet valuable formations, the lodes will now be broken down, and the ore dressed with a view to an immediate slipment for Swansea. The character of the Gurtavallig ove is similar to that found in the opposite mines of Berehaven; and, except in its greater richness and extent, corresponds with that found in the best Cornish mines. It will probably bring all the profit of the westy clerk, said, that in consequence of the company having made a return of 38,000. to 4000. to 4000. a year on their works in St. Margare's parish.—Mr. Rookes, or 24 ft. across. A considerable quantity of ore has already been collected; and now that the operation of stoping has been commenced, a cargo will probably be ready for sbipment before the end of the year. To have arrived at such a position with a Cornish mine, at least 10,0001. must have been expended, and three or six years devoted to the work; whereas here the whole outlay has not yet reached 20001, and the operations were only commenced in the winter of 1846. A row of small dwelling-houses for the accommenced in the winter of is in course of construction, at a convenient distance from the works; and so favourable has the contract been to the company—good slate and building at mounts of the works; and so favourable has the contract been to the company—good slate and building at the profit could be raided—Mr. Rooks observed, that they are the profit could be raided—Mr. Rooks observed, that they are the profit could be raided—Mr. Rooks observed, that the profit or the profits co

abareholders.—N. L. B.: Cork, August 18."

COMEMARTHS AND NORTH DEVON LEAD AND SILVER MINES.—The annual meeting of abareholders was held at the mine, on the 18th inst., when the accounts were examined and passed—showing the 12 months oest to have been 8888. 2a. 6d.; and by calls, balance in hand at last account, and money received for ores sold, there remained a balance in favour of the company of 4111. 2a. 1d. We shall give the agent's report next week.

WANLOCKHEAD MINES.—VISIT OF THE DUKE OF BUCCLEUCH.—On Thursday last, the Duke of Buccleuch and two of his sons (the Earl of Dalkeith and Lord Walter), accompanied by Mr. Maxwell (Carronhill), and Mr. Douglas (architect), the duke's private secretary, and the tutor of the boys, visited the possessions of his grace at Wanlockhead. They were met by the miners, and escorted to the village, the band all the time "discoursing more eloquent music." The party, having Lem Joined by Mr. Stewart, ownser, visites the Smell Mills, and second to be deeply interested in the process of extracting the silver from the load.

April to the process of extracting the silver from the load. A plate of silver, weighing upwards of 100 lbs., was extracted while they were present.

After visiting the achool, a very load of their departure, grocted with the choese of the entire population. His grace expressed himself as much pleased with the walcome he had received at Wanlockhead.

ANFUL EXPLOSION OF A STEAM-BOAT BOLKE ON THE TRAMES.—About half-past 9 o'clock yesterday morning, the neighbourhood of the Adelphi was thrown into a state of great excitement by the sudden bursting of the boiler of the Cricket, one of the three "halfpenny" boats, which ply between London-bridge and the Fox-under-the Hill stairs. The consequences were most serious—four persons having lost their lives, 10 or 12 are in the Charing Cross Hospital much mutilated, and numerons others received injuries more or less severe, but were enabled to proceed homeward. The noise was heard, and the concussion of the air felt at a great distance; and the vessel herself was rendered a complete wreck, and immediately sunk. It is to be hoped a most searching inquiry will be made by the authorities of the conservancy of the Thames, as rumours are afloat respecting the unworthiness of the boats, as also of the absence of the engineer, stoker, and engtain, at the time of the explosion. Indeed, it appears almost impossible that boats running at such low fares, can afford sufficient pay to properly-trained and efficient officers. One stoker, about three months since, was discharged for pointing out the improper manner in which the engines were worked: he stated, at Bow-street, that he had known 400 persons on board; and, to accelerate the speed, the engineer had tied down the safety-valves, and worked the steam up to 90 lbs. on the inch. The three boats were built by Ditchburn and Mare, and the engineer by Joyce; they are on the combined-cylinder principle, patented by Mr. Octavius Smith, of Greenwich, for using the steam on the expansive principle in oscillating cylinders. Without at all prejudging the case, we cannot help extracting the following almost prophetic observation, which will be found in Portaine's History of the Steam-cagine, and was written when the fare was one penny: he says—"Three vessels on the Thames, called the Ant, Bee, and Orchet-boats which profess to work with low-pressure condensing engines. The public are not AWFUL EXPLOSION OF A STRAN-BOAT BOLLER ON THE TRAMES.

rails, when awful destruction must have ensued. It is feared the total loss of life is n'! yet ascertained.

CORNWALL RAILWAY.—The half-yearly meeting of shareholders was held on Thursday last, the 26th inst., at the Billiard Rooms, Truro.—J. T. TREFFRY, Esq., in the chair.—After the usual preliminaries, the SECRETARY read the directors' report, which stated that the Deviation Bill had received the Royal Assent, by which the line would pass close to Devonport, and participate in the traffic between that place and Plymouth. A contract had been entered into for the construction of a portion of the line east of Truro; and arrangements were being made for proceeding with other parts towards St. Austell. The directors had not pressed for calls, in consequence of the difficult state of the money market, which they trusted would be considered sound discretion.—From the balance-sheet, it appeared, that the total receipts had been 103,373L; and expenditure, 29,791L.—leaving balances at banker's, and in petty cash, or 73,581L—In the course of the conversation which ensued, Mr. Beunel urged the necessity of commencing the works immediately on several parts of the line; and stated that everything in his department was ready to begin at once.—The report and accounts were adopted, and the meeting separated.—The first sod was raised on Monday last by Mr. Findlater, the contractor, in a field near Buck's Head, in the parish of St. Clement.

Speed of Creditary Trains on the Great Western Railway, the heavy 12 o'clock down train will perform the 118 miles to Bristol in 3 hours and 40 min. We are in possession of the printed time-bill, and find that this train will not be accelerated at all at Bristol, and that it will be expedited only 10 minutes in the 1985 miles to Exeter; but the speed will not average more than 26 miles per hour. The 2 o'clock train is to save only 5 minutes to Exeter and the 4-15 15 minutes to the same place—reductions in time almost too insignificant to require notice. The third-class trains are to run at

BERLIN CASTINGS.—Ebrenberg states that the peculiar fineness of these castings is owing to the iron and sand employed being of a peculiar quality, and only to be met with in the neighbourhood of Berlin. The former is made from bog-ore, and the latter is a sort of tripoli, containing a considerable admixture of iron.

Godophin, before surrise, and there repeat three doors of thomes, some words—absurf enough to our ears—which words, however, are sufficient to legalise this Manor of Lambourn to the St. Adbyn family. Another like ceremony or in the county of Kent, excepting that the Reeve here goes on the top of a hill in the property, and proclaims and legalises an immense and rich manner and an entire family there. All this may seem to "T" and others remnants of by-gone days, and should be abolished; this, however, should not interfere with justice or our laws; if this ceremony or custom is singular, still justice is justice, whether made in the days of Richard I, or in the days of the words of the work entrated to them; and that, in conjustice is justice, whether made in the days of Richard I, or in the days of the words of the work entrated to them; and that, in conjustic is justice, whether made in the days of Richard I, or in the days of Ric

NUMBER OF MINES IN THE SEVERAL MINING COUNTIES. It would, doubtless, be a work of considerable difficulty to obtain an exact starn of all the mines in the kingdom; but the following list, however, in

LONDON AND PROVINCIAL JOINT-STOCK LIFE

INSURANCE COMPANY.

It has long been a well established fact, that the principles of life assurance, when properly and prudently carried out, have, ander all circumstances, produced large dividends to proprietaries, and accured an ample fland on which the assured, or their representatives, could fall back in time of necessity and need. Notwithstanding the vast increase in the number of these institutions during the past 20 years, as the blessings of the principles are continually being better appreciated by an increasing community, so must the business which they transact extend. We have before us a prospectus of a new company, under the above title; formed, as is alleged, for the purpose of effecting assurances of every description of risk contingent upon life, at the lowest rate of premium, justified by the past experience of established life assurance offices and the improvement in the average duration of life. The assurance, on a novel plan, and at a very low promium, of the repayments or advances obtained on mortgage through building societies, or from other parties, thereby relieving the property from incumbrance in case of the death of the borrower, during the term of repayments, coupling the blessings of a life assurance to his family, with the laudable gratification of thus acquiring property for his own or their enjoyment. The effecting of assurances fixed in amount, or progressively increasing, by the investments from time to time of a sum or sums of money with this company, the whole, or any part, of such investments being withdrawable on due notice; the policy to drop on withdrawabl of investment, without giving up the advantage of the assurance, the whole of the amount would be advanced to him on security of the policy—instrused to him on the security of his policy. This advantage is another peculiar features at 5 per cent. per annum being paid for the same. Thus, a person investing, from the age of twenty, 10t. a year with this company, will, in 10 years, h

E. W. Eaton, New Windsor, Berks, B.M., for certaing accidents by rallway.

O. Reynold, Dedham, Essex, clerk, for improveme frending-ropes, basket or wicker-work, and other simil W. Bacon, Bury, Lancashire, engineer, and T. Dixecriain improvements in steam-engines.

W. Eaton, Camberwell, Surroy, engineer, for certain dother liquids from one level to another.

O. Brothers, Blackburn, Lancashire, engineer, for cf manufacturing restorts, and in the machinery or an

A. Bowrs, Ra A. S. Livings

SOUTH-EASTERN RAILWAY.—The South-Eastern mileage is not accurately given in the papers. It should be thus:—London to Dever, 88 miles; Tonbridge-Wells branch, 5 miles; Paddock Wood to Maidstone, 10 miles; Ashford to Ramsgate, 80 miles; Ransgate to Margate, 4 miles; Whitstable branch, 6 miles; Minster to Deal, 9 miles—opened 1st July; Greenwich branch, 32 miles—total, 1552 miles: besides Graveseed and Rochester branch, closed till the 23d August, and Folkestone Harbour receipts.—Railway Record.

RAILWAY TRAFFIC RETURNS.

,	Name of Railway.	Lgth. Rway.	Present ac-	Price per share	Last Div.	Traffic I	1846
t	Arbroath and Forfar	15	£179,939	264	3 g.c.	£ 260	£ 247
	Chester and Birkenhead	16	658,293	394		917	715
a	Dublin and Drogheda	35	689,248	54	24	1002	975
9	Dublin and Kingstown	78	473,282	- 1	9.	1180	11132
٠	Dundee and Arbroath	161	156,323	39		-	339
В	Dundce, Perth, and Aberdeen	47	285,745	35	6	1127	-
	East Lancashire	301	2,207,490	18	man	1091	-
	Eastern Counties	226	6,518,026	184	7	12317	8827
	Eastern Union	44	581,091	59	20-90	1077.5	
,	Edinburgh and Glasgow	48	2,275,435	644	6	4508	4373
٠	Glasgew, Paisley, and Ayr	601	1,567,281	121	7	3413	2828
۰	Glasgow, Paisley, & Greenock	- 23	835,918	184	2	4289	1705
,	Gt. Southern & Western, Ireland	1101	1,343,718	29	-	1879	9.77
ı	Great Western	241	9,714,939	109)	8	21266	19873
Ы	Kendal and Windermere	104	147,001	24	-	242	-
4	Lancaster and Carlisle	70	1,209,913	604	1,9900	1643	-
9	London and North Western	382	18,042,004	162	10	49073	47657
ı	London and Blackwall	4	1,102,717	6	14	1302	1383
И	London, Brighton, & South Coast	1374	5,109,667	48	7	10738	9896
3	London and South-Western	186	5,836,132	60\$	9	10181	7810
ø	Londonderry and Enniskillen	144	-	248	***	138	-
ı	Manchester & Leeds	1471	5,036,391	96	59	10297	7974
ä	Manchester, Sheffield, & Lincolnsh.	494	1,678,108	89	100	2878	2404
2	Maryport and Carlisle	28	414,895	477	-	621	591
1	Midland Company	871	7,862,274	116	7	23264	20941
И	Newcastle and Carlisle	65	1,184,080	118	5	2676	2397
ı	Norfolk	704	1,199,689	110	7	2591	1720
ı	North British	78	1,459,958	294	1	3668	2240
ŧ	Shrewsbury and Chester	17	591,158	214	OFF C	595	77
3	South Devon	29	1,061,283	29	Parall	1044	641
1	South-Eastern	1574	5,888,411	345	34	11543	10545
1	Taff Vale	38	888,411		6	1464	1394
ł	Ulster	25	358,353	59	94	855	636
1	Whitehaven Junction	12	91,974	- 57,00	-	262	1953
1	York, Newcastle, & Berwick	2284	3,683,102	341	9	13508	6352
4	York and North Midlend	1824	2,483,256 I	76	10	10073	0.000

573,338 1755 14441 3412 8563 9112 n of Fra

COAL MARKET, LONDON.

COAL MARKET, LONDON.

PRICE OF COALS PER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Addar's Main 16 6—Chester Main 17 6—Davison's West Hartley 19—Holywell Main 17 6—North Percy Hartley 19—Orginal Tanfield 15 6—Stowart's Hartley 18—Tanfield Moor 18—West Martley 19—Wall's End Brown's Gas 15 9—Bell and Brown 19—Goslorft 19—Whartleffic 19—Belmont 19 3—Bell 19 3—Harwell 20—Hetton 20—Lambton 19 3—Harwell 20—Hetton 20—Hetton 20—Hetton 20—Hetton 20—Hetton 19—Thornley 19—Brown's Deanory 19—Richardson's Tees 18 6—the Dukes 19 6—Derwentwater Hartley 16 6—Howard's West Hartley 19—Ships at market, 41; 20d. 35; tassold, 5.

WEDNESDAY.—Carr's Hartley 19—Chester Main 18—Davison's West Hartley 10—Hasting's Hartley 19—Holywell Main 18—North Percy Hartley 19—Orginal Tanfield 16—Ord's Redheagh 16 9—Tanfield Meer 18 6—West Hartley 19—Wigm 17—Wall's End Acorn Close 19 6—Bewicke and Co. 19 6—Goslorth 19 6—Killimgworth 19 6—North-Immeriand 19—Hiddell's 19 6—Wharneliffe 19 6—Eden Main 20—Belmont 20—Braddyll's Hetton 20 6—East Hetton 19 6—Haward's West Hartley 20 6—Granbion 20 6—Murten 20 6—Shotton 20 3—Steward's 20 6—Caradoc 20 6—Hartlepool 20 6—Hiddell's 19 6—Heugh Hall 19 6—Kelloe 20 6—Alambion 20 6—Murten 20 6—Shotton 20 3—Steward's 20 6—Caradoc 20 6—Hartlepool 20 6—Hiddell's 19 6—High Thornley 18 6—Heugh Hall 19 6—Kelloe 20 6—Alambion 20 6—Shotton 20 6—Hartley 19—Derwentwester Hartley 18 6—Howard's West Hartley 19—Erwison's West Hartley 19—Howard's West Hartley 19 6—Francis 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 18 6—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymour Tees 20 6—Gowpen Hartley 19—Howard's West Hartley 19 6—Seymou

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at the of the but retion owing Share be ex

Current Prices of Stocks, Shares, & Metals.

Cent. Ann., 88\$ 9\$ 8\$ Innuities, —
Cent. Ann., 88\$ 9\$ 8\$ Innuities, 9
Shock, 10\$ per Cent., 241
Cent. Consols for Acet., 67\$ 7
oner Bills, 1000;, 3d., 3 pm. par 3 pm.

Mines.—During the week, the mining share market has presented some fittle activity, if we may judge from the amount of business done, and doing. We find that several mines have made some important discoveries, whilst others have considerably improved; and a demand for shares has been the result. We have had inquiries for shares from the country in some of those mines which have remained dormant for a long period, and may, therefore, calculate on some good resulting, or favourable changes taking place. Upon the whole, we may consider that a general improvement has taken place, and that the mining share brokers have not been dissatisfied with their week's transactions.

During the latter part of last week, Callington Mine shares were in demand. On Saturday and Monday advices were received from the mines that the copper lode had been intersected in the 70 fm. level, and found worth 40. per fm. This, with the other recent discoveries, created a greater demand; and shares have since changed hands at 40. per share—giving a rise of 10,000.6 on the mine, taking the market value of the shares. The continued improvement in Holmbush has also found new owners for shares at advanced prices. A few Gwinear Consols have been offered at our present quotations, but there is nothing in the weekly report to warrant such a depreciation—a forced sale, or one of necessity, appears to have been the main cause of the decline.

Since the meeting of the Condurrow adventurers, these shares have been in request—several changed hands last week at and under 30. per share; and, during the present week, they have advanced considerably.

The continued improvement in the Bedford Mines are likely to create a movement in these shares, but few transactions at an advance have taken place. Inquiries for East Crowndales were made during the last week at former quotations, but the continued improvements have created a demand at better prices.

West Seton, Weet Basset, North Roskear, Trehane, Carn Brea, Herodsfoot, and West Wheal Tolgus, have been sough During the week, the mining share market has presented some little activity, if we may judge from the amount of business done, and

RAILWAYS.—A little more firmness in the share market was observable at the commencement of the week than characterised the principal portion of the previous one. Late on Tuesday, a slight declination took place; but more business was done on Wodnesday, without any material alteration in prices. The week closed under circumstances of more elasticity, owing probably to a slight improvement which took place in Consols.—Shares in railways do not command however that attraction which might be expected, and debentures are certainly flat.

At Messrs. Lamond's sale, on Wednesday, shares were in a very depressed state, and the quotations showed a marked decline in many lines. East Indian are almost unsaleable at the quotations.

The state of the s	214 7 F 45				-
The state of the s	JOIN	T-STC	CK	BANK	8.

Flares.	Companies.	Paid.	Di	v. p.	cent.	Pric	e
22,500	Anstralasia	£40		. 23	******	£174	184
20,000	British North American	03		. 5	*******	45	46
	Colonial						16
	Commercial of London			6	*******		
	Ionian State		******	6	*******		
	London Joint-Stock			6	*******	16	174
30,000	London and Westminster	20		6	*******	264	27
	National Provincial of England			. 5	** ** ***	361	38
20,000	National of Ireland	224		. 5	******	19	194
	Provincial of Ireland			8		442	197
	Ditto New			- 8		16	
	Union of Australia			. 6			25
10,000	Ditto New	24		6		21	24
60,000	Union of London	16		. 5	** ** ** **	124	13

	GAS-LIGHT AND	COKE	COMPANIES.		
Shares.	Companies. British (London)	Paid	Div. p. cent.	Price.	
5,000	British (London)	£18	£1*	£18	
5,000	Ditto (country)	19	16*	24 241	
1,000	City of London	100	10	300	
1,000	Ditto New	100	10	300	
4,000	Equitable	50	214	38	
10,000	European	20	16	18 19	
12,000	Gas-Light and Coke Chartered Co.	50	6	574 584	
6,000	Ditto New	10	6	11 12	
9,000	General United Gas-Light Compar	ov 50	9	174 184	
10,000	Imperial	50	6	80 82	
16,400%.	Ditto Debentures	100	4		
8,000	Imperial Continental	391	44*	61 63	
7,000	Ditto New	28	444	61	
14 5007	Ditto Dohomburge	100		100 100	

9,000	Phœnix, or South London	43 5 34½ 35 80 5 75 25 6 31‡ 32‡
100	MISCELLANEOUS	COMPANIES.
Shares.	Companies. Assam Tea Company	Paid. Div. p. cent. Price.
10,000	Assam Tea Company	£20 £ 3
40,000	Australian Agricultural	30 90 99
10,000	Australian Trust	35 30
10,000	British American Land	951
8,600	British Rock and Patent Salt	85 18 11
8.915	Canada	00 18 11
5,000	Droitwich Patent Sait	374 14 264
9 700	Equitable Perenderane	25 11
2,700	Equitable Reversionary	95 41 87 90
FUIUUU	General Steam Navigation	14 189 09 04

8,000 British Alkali 28 4 16½ 16 40,000 British American Land 35 18 14 8,600 British Rock and Patent Salt 38 18 11 8,915 Canada 324 6 28½ 30 — City Bonds (Navigation) 32 69 1,800 Corn Exchange 372 14 264	7.7 Mile 10.0
Solu Driving Hock and Parent Sals 85 18 11 8 11 8 15 16 28 30 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	では 記録 別様
8,915 Canada	
- City Bonds (Navigation) 89	
	THE STATE OF
	P.
	18
2,100 Hungerford Market 100 230 240 1.500 London Commercial Sale Kooms 100 1 31 28 8,000 London Commercial Sale Kooms 22 2 33 24 25 25 25 25 25 25 25 25 25 25 25 25 25	
1.500 London Commercial Sale Rooms	
8.000 London Reversionary	att.
300 Margate Pier	25%
	The same
20,000 New Brunswick	
11,600 Peninsular and Oriental Steam 50 7 874	
a con Titte	25
6,600 Ditto 40 574	nt H.
5,387 Reversionary Interest Society 100 414 97 98	
- Royal Mail Steam	255
6,000 South Australian	200
20,000 Upper Canada 93 94	
20.000 Ditto	1000
40,000 Van Diemen's Land 20 3	
* Those marked with an asteriak (*) are dividend per share.	
The state of with an absence (") are divident per susre.	

TH. HES TUNNEL COMPANY. singers who passed through the Tunnel in the week ending Aug. 21, was 16,549; amount of money, £68 19s. 1d.

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars ...per os. £2 17 9 New dollarsper os. £0 4 104 "Pertugal pieces 9 0 0 Silver in bars (standard) 0 4 11

4	PRICES OF MINING SHARES.					
Ŧ	Shares. Company. Paid, Price.	Shares Company Paid, Price.				
Ŧ	Shares. Company. Paid, Price. 1000 Abergwessin 7 . 12	Shares. Company. Paid. Price. 2000 South Dolcoath 2 1 206 Sth. Friendab. Wh. Ann 16 14				
1	1024 Alfred Consols 44- 30 256 Alternum Consols 2 12	200 South Harvannah 10 25				
1		300 South Harvannah 10 25 25 25 25 25 25 25 2				
1	1624 Balleswidden 9 18	256 South Trelawney 15 7				
1	10000 Hanwen Iron Co 2 —	128 South Wheal Basset 110 65				
1	1000 Barristown 41 10 4000 Bedford 21 31	256 South Wh. Hope 5				
1	128 Besore Lead Mine 14 10 315 Birch Tor Tin Mine 24 7	1000 South Wh. Maria 21 21 256 South Wheal Rose 111 1				
1	100 Botallack	280 Spearne Moor				
1	120 Brewer	956 St. Austell Consols 9 14 94 St. Ives Consols — 320 128 St. Michael Penkivel 5 10				
1	- Ditto ditto, scrip 10 19	128 St. Michael Penkivel 101 1000 Stray Park 43 29				
1	128 Burthy	9600 Tamar Consols 5 5				
1	128 Callestock					
1	256 Caradon Copper Mine 94 1 256 Caradon Mines 224 17	1000 Tin Vale Consols 2 22 256 Ting Tang 15 10 128 Tokenbury 1434 10 256 Trehane 2 24 2500 Treleigh Consols 6 4 2500 Trenance 2 256 Trenance 256 T				
1	256 Caradon United 24 10	256 Trehane 2 24 5000 Treleigh Consols 6 4				
1	256 Caradon Wh. Hooper 20 4 1000 Carn Brea 15 105 2048 Carmarthen Consols 2 3	2800 Trenance 2				
1		96 Tresavean 10 250				
1	112 Charlestown 200 100 166 Cleveland 9 5					
1	112 Charlestown 200 100 166 Cleveland 9 5 512 Coatlithe Hill 1 1-14 1900 Combawn 7 3 3 500 Comblawn 5 44 128 Comfort 45 100 256 Coadurrow 20 374	258 Trevean				
ı	128 Comfort 45 100	128 Trewellard 12 264 6000 United Hills 5 . 4				
1	256 Condurrow 20 371 2560 Cook's Kitchen 14 51	100 United Mines300 350 256 Wellington Mines 15 30				
1	2560 Cook's Kitchen 14 52 1000 Coombe Valley Quarry 12 12 1000 Copper Bettom 1 5	256 Weilington Mines 15 30 128 West Basset 45 28 256 West Caradon 20 168				
1	1024 Cosheen	128 West Cargoll 2 12 512 West Fowey Consols 40 15 256 West Grambler 7 8				
1	128 Creeg Braws 120 100 500 Cubert Mine 124 23	256 West Grambler 7 8 256 West Providence 1 16				
		200 West Seton				
l	Derwort S 5 5 1024 Devon&CourtenayCon. 6 2 1024 Devon&CourtenayCon. 1 250 1000 Dhurode 2 5 186 Dolcoath 30 50 50 50 50 50 50 50	190 West Trothellen 5 25				
1	1024 Devon Great Consols 1 250 1000 Dhurode 2 5	256 West United Hills 24 4 256 West Wh. Friendship 74 3 4845 West Wheal Jewel 11 15				
	2000 Diake Walls	2500 West Wh. Maria 24 1				
P	0000 Durham County Coal. 45 . 9 256 East Alvenney 6 . 10	2560 West Wheal Rough Tor 2 2 256 West Wheal Shepherd. 5 22 256 West Wheal Tolgus 212 12				
	112 East Caradon 42 42 2048 East Crowndale 41 31 512 East Combe Silver-Lead 61 61	956 West Wheel Property 10 10				
E	512 East Combe Silver-Lead 64 64 128 East Pool 5 55	5200 Wicklow Copper 5 121				
6	100 East Relistian 22 40	5200 Wickiow Copper . 5 121 184 Wheal Adams . 41 10 1000 Wheal Agar 8 256 Wheal Albert . 10 8				
000	- East Wheal Albert 1 3	128 Wheal Acland 13 . 2 256 Wheal Allen 2 5				
	9000 East Tamar Consols	237 Wheal Anderton 164 26				
	2048 East Wh. Rough Tor 2 — East of Scotland Iron Co. 2 1	128 Wheal Ann				
0.0	193 Fast Wheat Seton 14 90	128 Wheal Arvose 84 5				
	256 Elborough 1½ 2½ 256 Exmoor Wh. Eliza 3½ 11 512 Fower Consols 40 45 6400 Gadair 2 2	120 Wheal Bal 51. 20				
1	512 Fowey Consols 40 45 6400 Gadair 2 2	2560 Wheal Barbara 11 3 256 Wheal Benny 61 5				
1	0000 Gen.Mining Co.for Irel. 2 14	956 Wheel Buckette 90 99				
	2048 Georgia Tin Mines 12 14 256 Gonamena 312 70	256 Wheal Byon Consols				
		126 Wheal Clifford 190 190 128 Wheal Courtenay 20 6000 Wheal Curtis 2 2-2;				
	2444Grambler & St. Aubyn —	256 Wheal Dyke 12 13				
-	1560 Great Michell Consols 14 3 256 Great Resugga Moor 3 34 512 Gt.Wh.Rough Tor Con. 64 36	256 Wheal Fortesche 51 8 512 Wheal Fortune Consols 31 61				
1	512 Gt.Wh.Rough Tor Con. 61 36 1500 Great South Tolgus 2 2	2048 Wheal Frederick 2 2 368 Wheal Franco 27 35				
	100 Grogwinion 5 2 1000 Gunnis Lake 14 3 256 Gwinear Consols 5 15	1024 Wheal Grace 2 24 128 Wheal Harriet 45 50				
	1000 Gunnis Lake 1	388 Wheal France 27 35 1024 Wheal Grace 3 24 128 Wheal Harriet 45 50 236 Wheal Louisa 81 15 255 Wheal Louisa 81 15 112 Wheal Maria (Hayle) 24 10 4000 Wheal Maria (Hayle) 24 10 4000 Wheal Mary Consols 5 23 256 Wheal Mary Consols 38 25 256 Wheal Mary Consols 38 4 256 Wheal Mary Consols 4 7 256 Wheal Mary Consols 4 7 257 258 Wheal Mary Consols 4 7 258 Wheal Mary Consols 5 258 Wheal Mary Consols 5 258 Wheal Mary Consols 7 258 Wheal Mary Con				
į.	1000 Hanson	112 Wheal Margaret 79 250 256 Wheal Maria (Hayle) 24 10				
-	5000 Heignston Down Con. 1. 21	4900 Wheal Martha Consols. 5 . 2				
	256 Herodscombe 22 10 256 Herodscot 14 18 2000 Hibernian 124 18	512 Wheal Mary Ann 5 23 256 Wheal Mary Consols., 38 25				
	239 Hobb's Hill 6 3	256 Wheal Maude 14. 14				
	827 Kirkendbrightshire 5. 8	210 Wheal Prospect 4 7 120 Wheal Reeth 27 30				
2	239 Hobb's IIII 6 3 000 Holmbush 19 9 827 Kirkendbrightshire. 5	216 Wheal Prospect 4 7 120 Wheal Reeth 27 30 128 Wheal Rose 60 45 2048 Wheal Samson 20 99 Wheal Seton 214 850 256 Wheal Staters 295 35 256 Wheal Sophia 34 10 128 Wheal Spearne 10 75 128 Wheal St. Ann 9 15 260 Wheal Trelawney 72 108 256 Wheal Trelawney 72 108 256 Whall Tremayine 35 30				
1	200 Larkholes 1 3 128 Lelant Consols 90 60	99 Wheal Seton 214 850 256 Wheal Sisters 29‡ 35				
,	160 Levant	256 Wheal Sophia 35 10				
1	000 Llwyn Malees 5 600 Llynvi Iron 5060-65	128 Wheal St. Ann 9 15				
	600 Llynvi Iron 5060-65 256 Lostwithiel Consols 12 12 128 Ludcott 3 3	256 Wh.Tremaine(St.Ervan) 11. 20				
36	128 Ludcott	128 Wheal Trew 20 21				
5	1000 Marke Valley	92 Wheal Tryphena140 265				
20	0000 Mining Co. of Ireland 7 71	256 Wh.1 Tremaine(St.Ervan) 12 92 256 Wheal Tremayne 35 30 128 Wheal Trew 20 21 226 Wheal Trevenna 3 4 92 Wheal Tryphena 140 265 128 Wheal Venland 121 10 256 Wheal Venland 124 60				
	128 North Fowey Consols 30 30	184 Wheal Vyvyan 60 256 Wheal Williams 6 18				
9	100 North Pool 45 . 370 70 North Roskear 101 . 370	to the second se				
10	512 North Treburget 2 3	FOREIGN MINES.				

0 North Pool 45 . 370	THE RESIDENCE OF SHIP ASSESSMENT
0 North Roskear 104 370	
2 North Treburget 2 3	FOREIGN MINES.
0 North United 72 15	5000 Alten Mining Company 144 35
6 North Wh. Abraham f 12	15000 Asturian Mining Co 10 7
2 North Wh. Leisure 11 3	20000 Australian 2 41
8 North Wh. Providence 24 8	10000 Anglo-Mexican Co 100 2
0 Northern Coal Co 23 . 2	12374 Ditto Subscription 25 21
0 Old Delabole Slate Co. 25 50	3000 Bolanos 61
8 Par Consols 900 1000	
6 Penhallow Moor 15 4	12000 Brazilian Imperial 22 7
9 Pennant 1 1	
Penrhiw 30 65	8500 Colombian Co. regis 55 1
8 Pen-y-Cefn Mine 50 55	5000 Ditto Scrip 54 1
Perran St. George Un. 13 20	5000 Copiapo Mining Co 14 3
Perran Wh. Virgin 94 15	10000 General Mining Ass'u. 20 . 154
Plymouth Wh. Yeoland 44 18	5000 Kinzigthal Mining Ass. 2 22
Polsaith Consols 2 4	20051 Mexican Company 59
Providence Mines 35 45	2000 Mexican & SouthAmer. 7 3
Redruth Consols 3 9	5000 Mocaubas & Cocaes 25 44-5
Rhymney Iron 50 30	c Dl del Monte rocks 3
Ditto New 7 61	29320 {Ditto unregistered } 281 av. 2
Rose Consols 10 2	Ditto Red Debentures 20
Rosewall Hill 1 5	Ditto Black ditto 14
Rosewarva Mines 12	Ditto Loan Notes 150 974
Shotts Iron Company 50 65	7000 Royal Santiago 10 5
Silver Valley 5 2	
South Callington 5 . 71	

128 South	Caradon	10	400	1 43174 Unit	ed Mexican	284	2
	SOUTH	AUST	RALIA	N SHARE I	JARKET.	dr.	7.30
Shares.	Company.	Paid.	Price.	Shares.	Company.	Paid.	Price
6000 Baross 2464 Burra 436 Grand 200 Greeno	de	\$ 15 5	3 110 28 12 14	1000 Poon 400 Princ 10000 Roya 10000 Roya 600 Victo	awurta	34	91-10 259 11 551 3

SOUTH AUSTRALIA AND NEW ZEALAND. 100000 North British Australasian (Kaw-aw, &c.)...... 1 ... i-1

• We should feel greatly obliged by agents, or others interested, furnishing us with such corrections for our Share List as we may not have received through our usual channels of information—our object being to present as accurate a list of prices as can be obtained—to procure which, we selicit the aid of correspondents in general.

KILLING THE GOLDEN-EGGED GOOSE.—An English engineer was employed in mining for coal in Syria. The mine was profitable, but some one or other of the officials suggested that the Englishman did not get coal as fast or in such large quantities as the natives could, if they were allowed to try. Permission was granted, and the engineer sent off to Alexandria upon some excuse. Meantime, the Turks set to work, and in two or three days, with very little labour, produced five times as much coal as the Englishman had. This was reclosed an immensa triumph; but one fine morning the whole excavation fell far and buried the workmen. What was the fact? The engineer, as he undermined, had left large pillars of coal to support the earth above, which the Turks immediately knocked down, and the prize served to fill their baskets on the first days of their supposed triumph. The caustrophe, however, would, one should have supposed, have been a lesson to them. No such thing. "It was the wift of God!" Bo they killed the goose that laid the golden egg to but the moral of the tale was thrown away.—Lord Castlereegh's Journey to Damaseus.

LATEST CURRENT PRICES OF METALS.

ALL STREET, ST	5 a. £	a. d.	A STATE OF STREET, OF	
Inon-Bar a. Wales. ton	8 12 6 8			0-00
London	0 0-9	15 0	bottoms .	0-00
Nail rods 10		10 0	YELLOW METALSHEATHING	0-00
Hoop(Staf.),,	0 0-11	15 0	Tin-Com. blocksg cut.	0 4 5
Sheet	0 0-13	0 0	, bars	0-4 4
Bars no no no	0 0-11	8 0	Refined	0-4.8
Weish cold-blast ?	4 10 5		Straits A	0-44
				0-46
Scotch pigb, Clyde	3 7-3	8 0	TIM-PLATES-Cli.,ICi, box	
Rails, average	8 10- 9	0 0	" IX	14- 1 16
Russius, CUND C.	9 Ome	-	Cloke, IC cana cana	0-15
n PSI			1X	0-111
, Gourleff	0 0	Total Control	LEAD-Sheet &tos	0-19 10
, Archangel	0 0-13	10 0	Pig, refined	3-20 5
Swedish d,on the spot 1	1 5-11	10. 0	, common (0-18 10
, Steel, fagt.		9 0	" Spanish, in bd. (0-18 0
Connun Tile to Rogge 1	15-15	0 0	SPELTER-(Cake) on spot 19	
Correspondent	0 0 97			
Tough cake	0 0-101	0 0	ZING-(Sheet) as export.*	0-27 0
			Lafternament and the second second	
a Discount 24 per cent.	b Ne	t cash.	e Discount 21 per cen	t. d Dit
e in kegs a and f-inch.	Discoun	t 3 per	cent. g Ditto 2 per cent.	A Net cas
in bond. 4 Discount	3 per ce	mt.	& Ditto 24 per cent.	I Net cas
m Discount if per cent.	n Discou	ant 14 1	per cent. * For home use it is	32/. per ton.

Inon.—Welsh and Staffordahire continue in good demand, and prices are firm; in Scotch Pig very little doing, and price appears to have a downward tendency—the stock on hand is estimated at 100,000 tons; Swedish moves off at quoted rates; in Steel nothing doing.—Coryera remains steady.

Tix.—English is reduced this day 3s. per cwi.; Foreign remains at last week's quotations.—Tix.-Prares and Lead are steady, but neither in much demand.

SPECTER is again lower, owing, no doubt, to the absence of demand for India.

GLASGOW PIG-IRON TRADE, Aug. 26 .- Our market for the last week has been very languid. A few transactions have taken place at 67s. to 68s., cash—according to period of settlement. To-day the quotations are, No. 3, 67s. ; mixed Nos., 67s. 6d. to 68s. ;

	Sold at Belfa	EAD Ol	100000000000000000000000000000000000000	1847.		
Mines.	10		Amount.		Purchasers. Newton, Keater	
Barristown	4!	9	£14 15 0		Newton, Keates	. & Co.
Cubert	Sold in Londo	on, on the 19	th August £11 16 (1847.	Walker, Parker	& Co.
East Rose	Sold at the Mis 99 83		E13 14 0		Michell & Son. Newton, Keates,	& Co.
Wheal Mary Aun	Sold at Lisbea 34		€19 15 (Michell & Son.	
East Tamar Consols	Sold in Londo	n, on the 21	st August,	1847.	Newton, Keates	A Co

COPPER ORES.

Sampled August 11, and Sold at Andrew's Hotel, Redruth, August 26, 1847.

Mines		28.	. 1	rio			1	Mines.	Tons.	PILL.	Pr	ice.	188
United Mine		****	£4	4	0		1.4	Tresavean	113		£4	4	6
ditt			3	16	6		100	ditto	105		5	3	6
ditt			4	15	0		1	ditto	68		3	17	6
ditt			- 6	6	Qu	V: 1	10	Par Consols	77		8	16	0
ditt			3	11	6		10.0	ditto	76		5	6	6
ditt	0 93		3	16	6		C	ditto	72		8	18	ä
ditt	0 80		6	2	6		190	ditto	38		5	12	ä
ditt	0 79	****	4	10	6		30	West Wh. Jew	el 66	33.0	4	17	6
ditt	0 77		2	13	6		100	ditto	61	100000	3	17	6
ditt	0 66		4	11	0			ditto	57		Ä	13	0
ditt	0 59		5	7	6		-	Treleigh Consc			6	9	6
ditt	0 54		4	6	6		3.0	ditto	59	****	13	16	6
ditt	0 45		8	6	6			ditto	54		3	16	ň
ditt	23		4	1	0	No. 1	ME	West Trethella			8	0	6
South Carad	on 97		7	10	6		0	ditto	32		0	7	6
ditt	87		5	15	0	h w		South Tolgus .			6	4	0
· ditt	85		6	9	6			North Downs				13	o
ditt			. 7	4	6			East Downs			7	9	6
ditt		****	4	3	6		13.	23401 1704110 11			•		v

TOTAL PRODUCE. United Mines 1170£ 5183 17 01 Treleigh Consols. 174£1394 10 0

South Caradon	354	** 2306	4	6	West Trethellan	80		221	4	0
Tresavean	286	1284	6	0	South Tolgus	35		211	15	0
Par Consols	283	2049	14	0	North Downs	16	****	106		0
West Wh. Jewel	184	823	3	6	East Downs			64		
					Average Produce£5				78	
Quantity of Ore		259	l to	ns.	Quantity of Fine Co	ppe	r, 192 to	ms 3 c	wts.	10
LAST SALE	verage !	Standard		4	05 19 0 Average	a Da	course		101	14

A	ST SALE.—Average Standard£ 95 12 0.—Average Produce 101
	COMPANIES BY WHOM THE ORES WERE PURCHASED.
	Mines. Tons. Amount.
	Mines Royal £ 593 6 10
	English Copper Company 237 1215 15 3
	Vivian and Sons
	P. Grenfell and Sons 553 2389 19 6

Total tons 2591 £13.645 4 6

Copper ores, for sale on Thursday*next, at White's Hotel, Pool.—Mines and Parcels.
—North Roskoar 941—Consolidated Mines 690—Tincroft 405—Wheal Seton 282—Fowey
Consols 268—South Wheal Francis 265—Creg Braws 178—South Roskear 111—Wheal
Bucketts 100—Lanivet Consols 93—Wheal Harriet 74—South Roskear 111—Wheal
Bucketts 100—Lanivet Consols 93—Wheal Harriet 74—South Wheal Basset 58—East
Seton 44—Wheal Busy 42—Wheal Tryphena 27—Trotoil 12—Wheal Catherine 6.—3594.
Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Parcels.—Carn Brea Mines 901—Afried Consols 419—United Hills 312—Par Consols 311—
Wheal Prosper 218—Levant 129—Wheal Agar 58—Botallack 46—West Wheal Treasury
42—North Wheal Basset 40—Wheal Virgin 37—Tokenbury 36—Great Work 20—West
Wheal Providence 19—Godolphin 12.—Total, 2600 tons.

Sampled August 4, and Sold at Swansea, August 26, 1847.

Tons. Prod. Stand. Price.
 Mines.
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 Mines.
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 Cobre.
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 Mines. Mines. Tons. Prod. Stand. Price. Berchaven 108 9 9 1014 7 12 6 Chili 61 28 83 21 13 0 ditto 96 9 9 9 9 7 9 6 Lackamore 80 104 96 7 1 6 ditto 92 9 100 7 2 6 ditto 11 294 84 22 6 0 Chb 93 17 93 13 16 Aberlovey 24 134 99 10 3 6 ditto 55 184 87 14 2 0 8 allymurtagit 4 594 74 42 0 0 ditto 65 234 664 18 1 0

dieto oo aug., ougto		COMMERCIAL AND ADDRESS OF COMMERCIAL PROPERTY AND ADDRESS OF THE PARTY	1000	а
		RODUCE.		
Cobre 395 £ 4394 18	0	Kapunda 163 £ 2640 1	7 1	6
Knockmahon 345 1800 16	0	Holyford 130 2679 1	0 1	ö
Burra Burra 325 7348 9	0	Sydney 92 933 1		ñ
Berehaven 296 2196 12	0	Chili 61 1390 1	3 4	ö
Cuba 3634 4	6	Lackamore 41 477		
Cronebane 188 633 8	0	Aberdovey 24 243 1		
Tigrony 2 68 0	0	Ballymurlagh 4 100		
Comismo 209 3615 8	0	CONTRACTOR		м

COPPER ORES SOLD AT LIVERPOOL.

From			ZONE		100			Purchasers,
Valparaiso	** ** **	*******	85		£42	16	80	The second section of the second section and the second
ditto			85	*****	17	. 3	2	Messes, John Bibby & Sons, and th
ditto			97		37	100		(British and Foreign Copper Co.
ditto			87	*****	37	10	0	
		18042550	200		Office of the	en e		ACCURATION OF THE SECURITY AND ADDRESS OF THE SECURITY ADDRESS OF THE

THE COPPER DUTIES QUESTION.

THE COPPER DUTIES QUESTION.

TO THE ENIOR OF THE CORNWALL NOTE CARRITE.

SIR,—In the latter portion of my letter of the 17th July (inserted in the Hising-Journal of the 7th Angust). I reserve the myself the right of declining to be guided by the discusse of the Manchester Chamber of Commerce, as to the change in the copper quastion in 1843, having been permicious to "the manuscaturing trads in that discrete;" preferring to wait, as a better authority njon that subject, for the presentation of the official accounts which had been moved for, and have since been princial. I vill pass over this part of the question for a first of the question of the coal trade with Child, a passing of the same clearly of coal, which I can dispose of in few words. In a provious passing of the same quantity of coal which had been alipped from this country to Child in the year 1845 (15, 149 tons) might also have been early in 1846. The official returns upon this subject, since presented, prove that I have been most liberal to my opponents; after, mead of 15, 149 tons, of the declared value of 6880t, as shipped in 1845, the export to Child hat year was reduced to 886 tons, of the declared value of 4807t; and pursuing the attentions would have produced some 800 or 900 tons of copper in the year—it appears that the most quantity of copper that the actual quantity sent would male, would be made the control of the Child and the call of the copper of the co

In 8 years£4,807,784 — Average, £500,973.

The exports of 1845 exceed those of 1842, by£348,4

Ditto ditto 1842 to 1844, by173,0

Ditto ditto 1838 to 1844, by166,6

could have given in this and the according

next figure.

Imports from Cuba into the United Kingdom.

\$233,522

393,121 Total ... £1,782,982

\$61,305

610,405

833,042 Total ... £2,544,054

\$698,663 Average ... £2,544,054

491,896

Experts from the United Kingdom to Chili. 4548,653 1,380,414 Total £3,887,211 1,562,859 Average 971,803 1,562,899 Average 971,803 493,375 1,071,509 1,087,502 Total £4,230,920 917,775 Average 1,087,730

Imports fro

£2,147,658— Average, £268,547.
ceed those of 1842 by £279,954, or 113 per cent.
1842 to 1845 by 147,925, or 39
1838 to 1841 by 371,054, or 236
1838 to 1845 by 259,350, or 96
,

In 8 years £3,859,336 — Average, £7,344,217.

The exports of 1845 exceed fluor of 1842, by £218,67
Ditto ditto 1842 to 1845, by 177,87
Ditto ditto 1838 to 1841, by 256,25
Ditto ditto 1838 to 1841, by 217,06
Ditto ditto 1838 to 1848, by 217,06
These exports British produce and manufactures constituted £7,344,217.
...£218,675, or 30 per cent.
...177,873, or 23
...256,257, or 37
...217,065, or 30
...eonstituted...90
...10

-Average, £261,334.
2, by£134,035, or 48 per cent.
5, by\$1,832, or 28 ,,
i, by\$132,675, or 106 ,,
iby\$132,673, or 58 ,, £2,090,669—Averaged those of 1842, by ditto 1842 to 1845, by ditto 1838 to 1841, by ditto 1838 to 1845, by E204,690 Total£1,102,157 425,195 Average 275,539 Total£1,408,542 411,049

.....£2,510,699 — Average, £313,837.

5 exceed, those of 1842 by £189,265, or 74 per cert. to 1842 to 1845 by 92,453, or 26 to 1838 to 1841 by 169,049, or 61 ...

1838 to 1845 by 120,751, or 42 ...

1838 to 1845 by 120,751, or 42 ...

1838 to 1845 by 120,751, or 42 ...

£1,741,864

In a years £2,604,950-Average, £325,619.

1849 to 1845 by 69,455, or 16 1838 to 1841 by 289,159, pr 184 1838 to 1846 by 179,302, or 55 aboving what is the separate tr

£11,195,890

.... £21,255,930 — Average, £2,661,993 exceed those of 1842 by £269,071, or 35 per cent. b 1842 to 1845 by 545,315, or 35 per cent. b 1832 to 1841 by 788,275, or 31 per cent. b 1832 to 1845 by 651,296, or 24 per cent. an

m Cuba, Chili, Peru, and Colombia.

1,399,106 1,907,747 1,348,651 1,933,521 1,773,506 In 8 years £11,170,313-Average, £1,396,299 mports of 1845 exceed ditto ditto ditto ditto ditto ditto those of 1842 by £539,415, or 38 per cent.
1842 to 1845 by 165,015, or 9
1838 to 1841 by 919,449, or 90
1838 to 1845 by 542,232, or 39

The imports of 1845 exceed those of 1842 by #53,415, or 3 and the ditto ditto 1832 to 1845 by 185,015, or 9 ditto ditto 1832 to 1845 by 182,323, or 39 ditto ditto 1838 to 1845 by 542,233, or 39 ditto ditto 1838 to 1845 by 542,233, or 39 ditto ditto 1838 to 1845 by 542,233, or 39 ditto ditto 1838 to 1845 by 542,233, or 39 diling off is the value of the imports from Cubs in the year 1845. That year's business shows, by comparison with the transactions of three out of the recording to the attributable to which, as I stated in my last eleven I cannot measure, if not wholly, apart from the question of duty. But the trade of the last year in the return (1845), whether of imports or exports, very far exceeds, as here shown, the average of the business of the whole eleght years from 1832 to 1845, out of the whole 22 years for which the returns are given; and, judging it possible, that parties ignorant of the real state of the case, may suppose that the other 14 years, from 1824 to 1837, might exhibit a result less favourable to my argument, I have judged it right to make a short estimate of the state of the exports and imports, to and from each of the four countries for the first 14 years from 1824 to 1837, both inclusive, by 88 per cent.

The exports to Cubs, in 1845, exceed the average of those of the 14 years, from 1824 to 1837, both inclusive, by 88 per cent.

The imports from Cubs, in 1845, exceed the average of these of the 14 years, from 1824 to 1837, both inclusive, by 88 per cent.

The imports from Cubs, in 1845, exceed the average of the set of the 14 years, from 1824 to 1833 per cent. The exports to Cubs, in 1845, exceed the average by 124 per cent. The exports from Chill by ...

The imports from Chill by ...

The exports to Columbia for 1845, are in excess by ...

The imports from Chill by ...

The imports from Chill by ...

The exports to Columbia for 1845, are in excess by ...

The exports to Columbia for 1845, ar

realisting of money in those nine years, to the amount of Tobe concluded in next week's Mining Journal.]

NOTICES TO CORRESPONDENTS

26, FLEET-STREET, LOND Also, to avoid trouble, Post-Office Onders should always be made payable to William SALMON MANSELL, as acting for the proprietors.

Exacts Mixes.—It will be observed, that in publishing our usual Mining Correspondence we have discontinued authenticating them by attaching the agent's names. We have been compelled to this course through the interference of the Stamp-office authorities, who have intimated their determination to charge all so distinguished as advertisements. In this instance, we cannot help thinking a most erroneous view of the case has been taken, as the name of agents attached to the reports, is merely a guarantee to the public of their authenticity, and genuine character, and a check to the publication of those which are apurious and illusive. We trust they will take the subject again into consideration, when, we feel convinced, they will alter their determination.

E."—A letter, in reply to the advertisement for a situation as Superintendent of ing Operations on the Continent, in the Journal of the 10th July, is now lying at office.

E. W." (Basingstoke).—Mushet on Iron, 8vo., 30s.; published by J. Weale, No. 59, High Holborn.

MINING JOURNAL Railway and Commercial Sagette.

LONDON, AUGUST 28, 1847.

In last week's MINING JOURNAL," we again alluded to the fact of a large decrease in price having taken place at Holywell of lead ores, between March and June last, and particularly noticed those from two mines—Logylas and Llanfair. On again referring to the Ticketing Papers of each month, we find that a gradual and general reduction in price took place—in proof of which we need only give the following as a fair sample of the greater number. No produce is given; but we believe there would be but little difference in the average sampling, certainly not to the extent here shown-while, most probably, some of them would have improved. East Logylas fell from 111. 6s. 6d. to 8l. 19s.; Frongoch, from 10l. 7s. to 8l. 9s.; Goginan, from 14l. 8s. to 13l. 3s. 6d.; Fronfownog from 11l. 12s. to 9l. 18s.; Maeserwddu, from 11l. 8s. 6d. to 10l. 3s. 6d.; Cairnsmore, from 10l. 9s. to 9l. 1s.; and Cwmystwith, from 10l. 10s. 6d. to 8l. 16s. 6d. These facts speak for themselves; and, although an improvement has taken place since June, it is owing to the competition which has arisen by the ticketings at Aberystwith, and not from any peculiarly liberal offers, emanating spontaneously from the Flintshire smelters. We give, in another column, a communication on this subject from "The Flintshire Lead Smelter," as we are quite anxious that the public should be in full possession of both sides of the question, and judge for themselves. Our correspondent places himself in the very position in which he finds fault with ourselves—viz.: the making assertions, without establishing them by proof.

In our extracts from the Ticketing Papers, we have shown that a great fall did take place in the price at the period we stated it had; and, as for our being misinformed on other points connected with the trade, we can only state, that we have taken every pains most probably, some of them would have improved. East Logylas

to arrive at the truth, and can fully depend on the parties from whom we derived our information—at all events, we have given our correspondent every degree of fair-play, by inserting his letters.

whom we derived our information—at all events, we have given our correspondent every degree of fair-play, by inserting his letters.

It would be a piece of pure wantonness to say one word of discouragement to the promoters of the West Cornwall Railway. Upon their own showing, and according to their official statement, there is more than enough of that in the actual circumstances of the line. We are free to say that, in our opinion, it is a line of great merit intrinsically, as well as of great importance to the county, as continuing a great railway route through the opulent mining districts below Truro. Of a line so essential to the necessities and accommodation of the county, there is, there can arise, no two opinions as to its expediency. Under such circumstances, no short and stunted alternative is presented, as to whether the undertaking shall be pressed forward, or at once abandoned. It is no question of survivorship—it will live, we cannot doubt, and become a great working line in posse; but the question coming to the surface, and asking an immediate solution, is, whether the line should be persevered in under its present management; or, whether the administration of its affairs should be committed to new, to more practised, or to more powerful, hands. The statement submitted at the last meeting of proprietors embodies, among other things, these particulars—that a sum exceeding 45,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; that a sum over 40,000L has been exceived on account of the line; the formation of the subscribers, and may have been completed

We have been at considerable pains in laying before our readers full statistical de tails of the mineral resources of France, and the progress making in the working of iron and coal mines, forges, steam navigation, railways, &c., which will be found in another column. From these it will be seen, that notwithstanding she is obliged annually to import large quantities of coal and metals from this country and Belgium, the mining interest in France is making rapid strides. Since 1838, the production of native coal, for instance, has increased above 30 per cent., and the entire consumption nearly 50 per cent.; this may, in a great measure, be accounted for from the increase in steam navigation, and the extended working of blast-furnaces in the production of iroa—the manufacture of which has kept pace with the consumption of fuel. Every description of iron and steel has found rapid sale; and the make of cast-iron had increased from 2,360,998 metrical quintals in 1833, to 4,389,710 metrical quintals in 1845; other descriptions had increased in proportion—while in copper and other metals, the production of native orea in the annual amount appears to have been nearly stationary. The great development of the mineral resources of France may be attributed to the School of Mines, established as long since as 1783, which has done much in the training of first-rate geologists and mining engineers; and it is somewhat a reflection on a mining country like Britain, that she has never followed the example set by her nearest continental neighbour. It will be seen that the public inspection of locomotive engines and railway works are entrusted to mining engineers, which speaks volumes in favour of the system of education pursued; which must, under such circumstances, be of the most ample description; and the candidates for public employment, on leaving the school, pass most scrutinizing examinations. With respect to the qualities of the coals and iron ore of France, they are both of an inferior description to those of this country.

The proposal to found in London an institution to promote and consolidate at some settled point the wide-spread mining interests of the kingdom, has already received the favourable judgment of this Journal. And we confess the more we think of the purposed foundation, the higher our opinion rises of its probable utility and advantages. We sincerely hope that mining proprietors, and those who take a leading part in mining operations generally, will give to the infant institution, that support and assistance to which its objects and prospective usefulness so fally entitle it. We hope it will be an essential part of the scheme of the institution to keep aloof as much as possible from dipping into the ordinary business of an hotel or a club-house. It should be, as we think, a Royal Exchange in miniature, where adventurers and mining merchants assemble, to purchase or to sell the particular property in which they are interested. It cannot be much too carefully guarded from becoming a place of entertainment, or a set of lounging saloons. A large library, filled with the very best geological and mining literature, and with all works devoted to the clucidation of the practical and mechanical arts—a museum, filled with mineralogical specimens, and drawings of mining utensits—would be important supplementary features in the institution; the primary and principal object of which, however, should be the concentration and union at one ascertained point of the mining, as one great national, interest in the United Kingdom.

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PROGRESS OF FRENCH MINING INDUSTRY.

[FROM OUR PARIS CORRESPONDENT.]
All mines in this country are, as your readers are aware, the property of the Government; but are conceded by it to companies, or private individuals, in return for a fixed rent, and a per centage on the proceeds. The number of the concessions, which were worked in the course of the year 1846, was 444—namely: 275 of anthracite, of coal, &c.; 84 of iron ore; 37 of ores of lead, copper, silver, antimony, and manganese; 26 of mineral bitumen, &c.; 22 of rock salt, &c. The rent received by the Government, which is fixed at 10 fr. per square kilometre of the surface, produced, in 1846, 77,113 fr. 26 c.; and the per centage on the produce of the mines, which in no case exceeds 5 per cent., was 370,598 fr. 31 c.—this makes a total of 447,711 fr. 57 c.; to which is to be added \(\frac{1}{3} \) th for what is called the décime en sus—making a grand total of 492,487 fr. 74 c, being 61,619 fr. 22 c, more than the rental and per centage of 1845. The number of men employed in working the mines in 1846 was 35,320.

Examinations of deposits of iron ore, or searches for them, were ma Examinations of deposits of iron ore, or searches for them, were made in 1846 in the following departments:—Ain, Allier, Ardèche, Aude, Aveyron, Bouches du Rhône, Cantal, Corrèze, Corsica, Côte d'Or, Gard, Jura, Loire, Haute Marne, Meurthe, Morbihan, Moselle, Nord, Puy de Dôme, Haut Rhin, Rhone, Haute Saone, Saone et Loire, Var, Vaucluse, and Yonne. Deposits of copper, lead, silver, gold, tin, zinc, antimony, and manganese, were examined, or sought after in the deposits of the control of the cont manganese, were examined, or sought after, in the departments of the Allier, Basses Alpes, Hautes-Alpes, Ariège, Ande, Corsica, Dordagne, Gard, Haute Garonne, Herault, Isère, Lot, Lozère, Morbihan, Nord, Puy de Dôme, Bas Rhin, Rhone, and Vosges. Coal, anthracite, &c., were sough for in the departments of the Allier, Ardèche, Aveyror, Gard, Herault, Indre, Loire, Lozère, Maine et Loire, Moselle, Nord, Puy de Dôme, Pyrenées Orientales, Bas Rhin, Haut Rhin, Saone et Loire, Sarthe, Var et Mineral bitumen was sought after in the Basses-Alpes, the Doubs, and the Var; and rock salt in the Ariège, Aude, Doubs, Haute Saone, Saone et Loire. Some of these researches have, it is said, resulted in important discoveries, and have given rise to numerous demands of

in important discoveries, and have given rise to numerous demands of concession.

The number of steam-engines (including locomotives) employed on land, in 1845, was 4114, of which 3649 were of French construction; the 4114 represented 50,187-horse power. In 1842, the number of French-built locomotives in France was equal to that of foreign-built ones; in 1843, the former exceeded the latter by 2; in 1844, by 44; in 1845, by 76. The number of steamers in 1845 was 259, exclusive of war steamers.

The importations of east-iron and coal continue to increase month after month. Last month the quantity of coal imported was 2,642,749 met. quin.; in the corresponding month of last year it was 2,491,859; and in July, 1845, 2,692,797. Of cast-iron the importation last month was 106,279 met. quin.; July, 1846, 90,136; July, 1845, 50,434. The importation of copper last month was 3477 met. quin.; July, 1846, 8060; July, 1845, 9378. Of tin, 369 met. quin. in July last; 1424 in July, 1846; 2888 in July, 1845. Lead, 26,944 met. quin. in July, 1845; 18,503 July, 1846; 29,125 in July, 1845.

The newspapers publish a letter from Sweden, which states that the quantity yielded by the mines of that country, in 1846, was 115,105 tons; and the exportation was 109,611tons—of which 103,108 tons were in bars, and 6471 tons in manufactured articles.

The weekly report from St. Dizier, of the 19th, says:—"The manufacture of fers laminés continues to be confined to the fers en cercles and the fers aplatais, for which, fortunately, there is a fair demand. Some establishments have no iron for doalers in hand; and those that have any sell them off only slowly. The fabrication of fers battus is extremely restricted, and hardly one-tenth of what it might be if trade were better. There is no change in the prices. We know of no transactions in white cast-iron, the price of which is 170 fr. at St. Dizier."

The wasfare of the St. Etienne newspapers against the Company ewe has resulted from it. One of the agents of the company has been subjected; and

THE GREAT COAL COMPANY OF THE LOIRE.-No. II. Having demonstrated the legality of its existence, the company proceeds in its "Notes" to show, by an extract from a speech in the Chamber of Deputies, of the late Minister of Public Works, that the basin of the Loire had been parcelled out into such an immense number of concessions as to cause great inconvenience and danger. To use his own words-This division caused vast inconveniences. The mineral wealth of the basin of the Loire became less day after day—only the surface was worked; the persons holding the concessions were in a hurry to sell and to enjoy; the processes which the arts teach were neglected, in order to work the mineral riches to the very last vein. After having worked the mine, it was totally neglected, though perhaps not exhansted; and, when inundated, immense injury was done." This system was so disastrous to the basin, to the public, and to the holders of the concessions, that measures were taken by the Government and the Legislature to unite several concessions into one concern, and four or five great companies were formed. This, according to the Minister, secured the future welfare of the basin of the Loire—it enabled coal to be extracted cheaper, and it kept up a moderate competition, which was advantageous to the public. If, added the Minister, things had stopped there he should have rejoiced; but he thought that the Company of the Loire had gone too far in absorbing 27 concessions in 61, and 4744 hectures in a total of 21,000. To this the company replies, that large concessions were never considered objectionable in France; and it memions the basins of Littry, Carmeaux, Decize, Aubenas, Bouxviller, Plessis, &c., in all of which concessions much larger than it now possesses were made. It also shows that other companies had preceded it in the way of amalgamating several concessions. Thus the Company of Anzin now possesses 7 concessions out of 13, and 26,564 hectures out of 49,248 hectures conceded—thus the Company of Blanzy has absorbed 8 in 13 concessions; the Grand' Combe, originally 12 concessions, is now only 1; and, to enable the Grand' Combe Company to effect this amalgamation, the Government and the Chamber advanced it money. These facts are certainly very strong in favour of the Loire Company.

The "Notes" of the company then proceed to show that the workings of coal mines should only be carried on as commercial speculations; for that, if the mines be not made to produce more than they cost, they must be abandoned to the risk of immadations, fire, &c., besides producing the rain of the parties to whom they may belong. In support of this position it makes the following statements:—In the basin of the Loire there are 61 concessions, which were divided into 105 rival workings. was totally neglected, though perhaps not exhausted; and, when inundated, immense injury was done." This system was so disastrous to the basin,

hafts would find themselves in an anomalous position age on most onerous conditions.

[To be continued in next seek's Mining Journal.]

IMPROVEMENTS IN WATCHES.—Mr. Summersgill, of Preston, has lately registered under the Copyright Designs Act, a very valuable improvement in leiser watches, which consists in so arranging the works, that the chain and fusee connected with the going barrel, or main-spring box, are entirely dispensed with—motion being imparted to the wheels and pinions direct, which are arranged in such a way that the watch requires winding up only once in eight days.

BRETT& LITTLE'S ELECTRO-TELEGRAPHIC CONVERSER ITS APPLICATION TO MINING PURPOSES.

In last week's Mining Journal we gave an extended notice of this highlyeffective, yet simple, application of galvanic electricity to telegraphic purposes on railways; and the patentees have suggested its use for the prerention of accidents in mines and collieries, or for giving notice when they so happen, and obtaining immediate assistance. The idea is exeeedingly good, and we know of no purpose to which the principle could be applied with greater advantage. A powerful toned bell, or bells, placed at surface, in connection with a galvanic apparatus of moderate power, so at surface, in connection with a galvanic apparatus of moderate power, so arranged, that the men in every level, shaft, &c., could complete the circuit, would give direct intelligence of any mishap, either from explosions, falls of roofs, sudden irruptions of water, foul air, or any other of the numerous accidents to which miners are subject. There would, we should think, be no occasion for the instruments as constructed for railways; as, by the employment of three or four bells of different tones, a set of audible signals might be arranged, which could be understood by the engineman, or any of the workmen employed at the surface, and which would be quite sufficient for the conveyance of any intelligence from underground which could be required. An apparatus of this description might be fitted up exceedingly economical, as in no case would there be any very great length of wires, as compared with railways; the posts for supporting them would be dispensed with, as the isolating caps might be affixed to the walls of the levels and shafts, and the whole might be made without any regard being had to elegance of form—strength being the principal consideration. To men employed from 100 to 200 fms, deep in the earth, and in some mines even more, such an arrangement would give confidence and consolation, as knowing they could make themselves instantaneously understood to their brethren on terra forma; and we have no doubt that many mining operations would be simplified and economised by the employment of electro-telegraphs. The attention of the patentees has been long turned to the subject, although they have been hitherto prevented arranging any system, their time having been wholly employed in bringing their railway telegraph to its present state of perfection. Having been so highly successful with this, we have no doubt they would be equally so with any arrangement applicable to mining purposes; and, when they have more effectually turned their experience in galvanic electricity to such purpose, we shall lay before arranged, that the men in every level, shaft, &c., could complete the circuit,

ON THE COMPOSITION OF FIRE-DAMP OF THE NEW-CASTLE COAL MINES.

ON THE COMPOSITION OF FIRE-DAMP OF THE NEW-CASTLE COAL MINES.

Some years ago I canalised the gas of these mines, with the same result as Dr. Henry, Davey, and Dr. Tarcer had previously obtained—namely, that it contains no other combustible ingredient than light carburetted hydrogen. But the analysis of the gas of the coal intens in Germany, subsequently published, showing the presence of other gases, particularly of olefants gas, has rendered a now stranination of the gas of the English mines destrable. The gases word—I. From a sease named the Five-Quarter scame, in the discission of the gas of the English mines destrable. The gases word—I. From a sease named the Five-Quarter scame, in the discission of the gas of the English mines destrable. The gases word—I. From a sease named the Five-Quarter scame, in the discission of collection, where the gas is collected as it sense, and used for lighting the mine, and mass sam—a seam of coal which is highly charged with gas, and has been the cause of many accidents.—3. Gas from Ellingworth Collery, in the neighbourhood of Jarrow, where the last great explosion occurred. This last gas issues from a fisure in a stratum of sandatone, and has been keep uninterruptedly burning, as the means of lighting the overly reported the properties of the contract of the gas were collected personally by my friend, Mr. J. Hutchinson, with every repolished prevaint of the gases with oxygen was sufficient to prove that they all consisted of light carburetted hydrogen, with the exception of a few percent. The usual endometrical process of fring the gases with oxygen was sufficient to prove that they all contained to the properties of th BY PROPESSOR GRAHAM.

ed the gas of these mines, with the same result as Dr. Henry

ventilation, and not fo impede the draught. The gas at the root unconventy orten acre as an explosive train, corresping the combination to a great distance through the mine while its continuity would be broken by such saking, and an explosion, when it occurred be confined within narrow limits.

Secondly—no effective means exist for succouring the miners after the occurrence of ar explosion, although a large proportion of the deaths is not occasioned by fire, or injuries from the force of the explosion, but from suffocation from the after-damp, or carbonic acid gas, which diffuses itself afterwards through all parts of the mine. It is suggested that a cast-iron pipe, from 8 to 19 inches in diameter, be permanently fixed in every shaft, the state of the staff itself afterwards through all the thround down, and the shaft itself. that a cast-row lap, from 8-to 1s increas in domainer, operations and active the service with blowing apparatus above, by which air could be thrown down, and the shaft itself immediately ventilated after the occurrence of an explosion. It is also desirable that, by means of fixed or flexible tubes, this auxiliary circulation should be further extended, and carried as far as practicable into the workings.—Transactions of the Chemical Society.

INDURATED AND IMPERVIOUS STONE COMPANY.—We have seen the prospectus of a company under the above title, formed for carrying out several patent inventions for indurating stones of all descriptions naturally soft, and rendering them as compact as polished marble, quite impervious to air and water, and not effected by heat or frost; the introduction of a cement of similar qualities; a process for hardening plaster of Paris, and rendering it compact for purposes of decoration, and giving it various colours; and, also, simple hand machinery for sawing, ripping, rubbing, and polishing all kinds of stone, marble, and granite. These are the several operations which the company propose to undertake; and, although in the absence of any specimens of the work, it would be premature in us to give an opinion on the merits, we may just observe, that there is in Ragland a wide field for the carrying out such inventions, provided they are perfect in their results and economical. Many of the softer kinds of stone found in this country in wat abundance, and which are comparatively useless, would thus be rendered available, and with a fair return to the shareholders. We are promised the sight of some specimens in a few days, and shall return to the subject in our next. The capital is to be 300,000 f, in 30,000 shares, of 10t each—the calls not to exceed 10s, per share; but the prospectus states, that the promoters calculate that not more than one-half the amount will be required.

Original Correspondence.

ON THE SALE OF FOREIGN COPPER ORES AT LIVERPOOL. ON THE SALE OF FOREIGN COPPER ORES AT LIVERPOOL.

Sin,—As a supplement to your article in last week's Journal, relative to the importation and sale of foreign copper ores at this port, I beg to hand you the prices at which a cargo, ox Courad, from Valparaiso, has just been sold to Messrs. John Bibby and Sons, and so the British and Foreign Copper Company; and I quite agree with you, that the South Australian shippers of copper ore, would do well to avail themselves of the advantages which Liverpool offers, in respect of facility of shipping at the lowest rate of freights.—Per Courad.—85 tons, 321. fee, 5d. per lon; 85 tons, 171. 3s. 2d.; 97 tons, 371. los. 1d.; and 87 tons, 371. 8s.

Liverpool, Aug. 26.

THE LEAD TRADE.

Liverpool, Aug. 26.

THE LEAD TRADE.

Sir,—Although newspaper controversy is foreign both to my habits and taste, yet, having taken upon me in a former letter to deny certain statements which you had made, and which you again assert in substance, I must crave a portion of your space to recapitulate the points, and leave your readers to judge on which side the truth rests. You stated that it is, and has been, the custom, from time immemorial, to self lead ores at Holywell by private contract; and that, by such "hole and corner" proceedings, the smelters got the ores at prices unfair to the producers—to which I replied, that, for 20 years at least, lead ore had been sold at Holywell by public ticket. Finding this position untenable, you endeavour to shelter yourself under the assertion, that nothing like competition exists; but, on examination, we shall find this assertion as unfounded as the original one. The ores are sold to the highest bidder; and the quantity sold being very much less than the quantity required by the smelters, it follows, that the very utmost value is given for them—for which of the smelters would go to Cornwall, to Ireland, or to South Wales for ore, when he could buy it cheaper at his own door? Surely, he would leave it to his neighbour to do that; and, further, if ores are selling cheaper at Holywell than in Cornwall, or South Wales, why do not the smelters in those districts come and buy them?

Your next assertion was, that some ores had fallen 20 per cent. in the last three months, which I also denied—and the truth of which you have failed to establish, though your prompter comes to your assistance with his selections from the ticketing papers. But though I denied, that any ores had fallen 20 per cent., yet I stated, that a considerable fall existed during the monetary crisis; but that previous rates were again nearly established. I added, also, that whatever depression existed in the price of lead ore in this district, "existed equally in the vaunted ticketings of Cornwall;" and, altho Sir,—Although newspaper controversy is foreign both to my habits and

IMPROVEMENTS IN RAILWAY CHAIRS.

SIR,—Having lately made some little alteration in my railway chairs, within the compass of the patent, the description given by you in the Mining Journal slightly differs from the plan I now adopt, though the Mining Journal slightly differs from the plan I now adopt, though the principle remains the same. I have dispensed with the oblong aperture in the chair, and the bolt at the end of the rail (although that plan may be adopted, if preferred—in which case I would suggest that the bolt should be a fixture on the chair, and the end of the rail notched out to admit the bolt). I have substituted a jointed, or notched, rail, that overlaps at the ends, which I prefer, as I consider the more simple the improvement the more valuable it is for practical purposes. The objection I contend to exist, as to the present chairs, is, the great distance between the bearing points of the chairs, by which the rail, from the pressure and weight of the engines and trains, acquires a considerable degree of deflection, and the constant bending and springing of the rail causes it to become loose in the chair, and finally starts up at the ends, or points, of junction, which always will be the case, without the rails are made considerably heavier, commensurate with the weight of the trains. This defect is remedied in the improved chair, by giving the rail a longer support over it, which will be obvious on inspection. The sleeper chair is 10 in. across, which gives the rail that length of bearing; and the block chair, being 22 in., affords it that additional support. The distance, therefore, between the bearing points of the chairs is greatly contracted, and by which the rail cannot acquire so much deflection, and is, therefore, more firm and steady. The points, or ends, of the rail are made to overlap—by which means, when once keyed into the chair, they can neither draw asunder, nor start up at the points of junction: it is from this cause so many accidents have occurred; but the celerity with which rails are replaced, when an accident happens, conceals the real cause of it—on inspecting the rail all appears perfect, and the cause of the accident becomes a mere matter of conjecture; this will never be avoided until a regulation is made, tha principle remains the same. I have dispensed with the oblong aperture in ginal cost is not more than that of the stone block and chair; they are more readily and speedily laid down on the line, and with much greater exactness. It will, at no distant day, be found that metal is the most preferable material, and will ultimately altogether supersede every other, wherever it can be used. To render the superiority of metal more apparent, it is only necessary to show the expense of laying down and maintaining railways on the present system. Stone blocks, even where stone abounds, taking together the cost of the stone, quarrying and holing the block, with the metal chair and new pairs, are as costly as the metal block, which comes the stone and maintaining railways ready made for use from the founders' hands. Where stone is scarce, the ready made for use from the founders hands. Where stone is scarce, the cost is much enhanced. The next expense attending stone blocks, is their constant breakage from the rebound of the trains, besides the breakage occasioned in the process of driving in the trenails to secure the chair. I believe it is undeniable, that on every mile of line where stone blocks are used, not less than 10 stone blocks break and have to be replaced weekly. This cannot occar with metal blocks. Add to this, a vast number of plate layers are employed on the line, to renew the stone blocks which give way, and to keep the rail in perfect order and repair. For every mile and

lines cannot occur with metal blocks. Add to this, a vast number of plate layers are employed on the line, to renew the stone blocks which give way, and to keep the rail in perfect order and repair. For every mile and a half of line, not less than three men are required—this adds much to the expense of keeping it up; not one-half the number would be needed, if the materials of construction were more durable, as would be metal.

Wooden sleepers are becoming more generally substituted for stone blocks, but they are also perishable, and require frequent renewal, besides being more expensive than metal; timber, from its extensive use, will become a very costly item in railway formation. Both stone and timber, when taken up to be replaced, are valueless—not so metal, which must always bear a proportional marketable value; there is, therefore, every inducement to prefer metal to any other material in making railways, and the increased demand for this staple article of commerce must give an important impetus to trade, and, consequently, bear beneficially on the traffic returns of lines. Chairs and rails, constructed on the principle that I have suggested, will be found the most economical from their durability and strength, and be less liable to breakage and accident; they may be made of any weight or pattern; and, from the support given to the rail, admit of mils of less weight being used.—S. Reed: Newcastle, August 25.

ATMOSPHERIC RAILWAYS FOR INDIA—REASONS OF THE FAIL

ATMOSPHERIC RAILWAYS FOR INDIA—REASONS OF THE FAILURE OF THE CROYDON ATMOSPHERIC LINE.

Siz,—Early in the spring of 1846, this "singularly ingenious and highlymeritorious invention," for public conveyance, opened with some & lat on
the Croydon line; but, dias! its success was of short duration—a circumstance any mechanical man might have foreseen, who was acquainted with
pneumatic machinery. The only part which excites surprise is, how it
should have succeeded so well on the experimental trials, and, after 12
months' use for public conveyance, become a thing of the greatest uncertainty. When it was first put in operation, and for some time after, the
air-pump valves, the tube, and its valve, were clean; and while they remained so, and the temperature of the weather suited the composition,
which was used to keep the valve of the tube perfect, the principle worked
admirably. But, in hot weather, portions of the composition on the valve
were melted, and forced into the tube by the pressure of the atmosphere;
then the air rushed in also, and, on some occasions, to an extent which reduced the speed of the trains to five miles an hour. To men in business,
travelling by the line, this was insupportable, and it was accompanied
with the additional evil of clogging up the tube, to the serious obstruction
of the piston. These defects had a considerable share in the downfall of
the Croydon atmospheric line, and would not fail in producing a similar
fate on any other atmospheric line where they exist, if punctuality in performances be essential.

The tube, too, was of cast-iron, and rough as a water pipe, cast in lengths

fate on any other atmospheric line where they exist, if punctuality in performances be essential.

The tube, too, was of cast-iron, and rough as a water pipe, cast in lengths of 10 or 12 feet each, and joined together in a very questionable way to be permanently air-tight; and the joints were very open inside of the tube, forming a bad surface for the piston to travel over. When the piston passed those defects in the tube, leakage to a certain extent took place, from the air which was propelling the piston being capable of a velocity 20 times greater than the piston was travelling at, supposing that speed to have been 30 miles an hour. At that velocity (30 miles an hour), 220 joints would be passed over by the piston per minute. Supposing, then, the joints, on an average, to have been 4 of an inch apart (and they were not less on the Croydon line), they jointly formed a space equal to 4 feet 7 inches in length, for the air to rush past the piston with perfect freedom once every minute during its progress through the tube. Mr. Robert Stephenson, in his report of experiments on the Kingstown Atmospheric Railway, mentions the fact of a heavy leakage when the piston was in motion, and attributes it to the inequalities of the internal surface of the tube. Mr. Stephenson states the loss of motive power from this source alone to be 41 per cent; and when the apparatus was tested with the piston at rest, a further loss of 30 per cent. was going on by leakage through other channels—making a total of 71 per cent. of the whole motive power employed to work the line; and the defunct Croydon line, be it remembered, was of similar construction.

It will be readily perceived, that the 71 per cent. loss arose from defects

making a total of 71 per cent. of the whole motive power employed to work the line; and the defunct Croydon line, be it remembered, was of similar construction.

It will be readily perceived, that the 71 per cent. loss arose from defects in the mechanical construction of the tube and valves, and had nothing to do with the principle of this "meritorious invention." But there was another loss, which also seriously affected the economy of the system, by making the tubes only 15 inches diameter. To exemplify this error, 1 shall suppose a tube having a barometer fixed to it, and perfectly air-tight. If the air within the tube be at the density of the atmosphere, the barometer would stand at the usual height of 30 inches. Let one-half of the air contained in the tube be withdrawn by an air-pump, and the barometer would immediately fall to 15 inches in height, and the tube, allow the sexternal surface, would sustain a pressure of 7.5 lbs. on the square inch. Again, let the process be repeated, and the barometer will fall from 15 in. to 7.5 in. in height, and the pressure per square inch upon the tube will only be augmented by 3.75 lbs., in place of 7.5 lbs., as in the former instance. In both cases, the motive power producing those pressures is the same. This fact clearly demonstrates the advantage of using large tubes for atmospheric railways. A tube 15 in diameter, and rarched to 8 lbs. on the square inch, only produces a pressure of 1414 lbs. upon the surface of the tube piston; whereas, a tube 22 in. diameter, with the air rarched to the same degree, gives 3040 lbs. pressure upon the surface of its piston. The former power only propels a train of 47 tons at 35 miles an hour, and the latter a train of 101 tons at the same velocity. Should circumstances require the small tube to be rarefied to the degree mentioned—that is, 7.5 lbs. + 3.75 lbs.—a further loss of power will be incurred, to the extent of 25 per cent., which, if added to the former, gives an aggregate of 96 per cent. loss. This immense waste of motive o

Watcot-place, Rennington-road, Aug. 25.

CONNECTION OF ENGLAND WITH FRANCE BY RAILWAY.

Sir,—In the Mining Journal of the 7th inst., I observe a communication from Mr. De la Haye, in reply to one from me in a previous Number, on the absurdity of his scheme for joining the two countries by an iron tunnel across the Channel. In this letter, Mr. De la Haye accuses me of ignorance, of not being a scientific man, and of not reading the Mining Journal attentively. I will not attempt to follow your correspondent through his lengthy epistle, but will endeavour to show that his plan could never be carried out; and I would just observe that, proposing schemes a century or two in advance of the age, is no more proof of scientific knowledge, than the conduct of him who is as much behind. Mr. De la Haye may write up the feasibility of his plan, and cite precedents where men of foresight and talent have been ridiculed for proposing grand projects, for the advancement of human nature, which have since been fully carried out; but I think he will find few proselytes to his system. Even allowing that the Channel was perfectly level from Dover to Calais, there would be continuous accidents and delays in floating out and sinking the sections of tabes, and which never could be properly secured; but when, on reference to the soundings, we learn that there are continual alternation of hills and holes to the amount of many fathoms, I shall be obliged to Mr. De la Haye if he will inform me, how he intends to surmount this difficulty; or whether he intends to follow the various inclinations of the strata, which is, of course, chalk, covered to a greater or less depth with pebbles, shi...gle, &c.? Another difficulty which suggests itself to me is, the arrangement for the entrance at each end; either he must excavate to a depth equal to the lowest level of the Channel's bed, or he must have his tunnel on a most sovere incline from both ends towards the centre. I readily acknowledges, that his proposed arrangement for ventilation is ingeni CONNECTION OF ENGLAND WITH FRANCE BY RAILWAY.

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NEWALL'S IMPROVED LOCOMOTIVE ENGINE Fig 2. Fig.1.

Abstract of specification granted to Robert Sterling Newall, of Gateshead, Esq., for certain improvements in locomotive engines.—Patent dated 16th February, 1847.]

These improvements in locomotive engines.—Patent dated 16th February, 1847.]

These improvements, which are arranged in the enrolled specification under four distinct heads, are as follows:—The first part has reference to the arrangement of the fire-box and tubular part of the boilers of locomotive engines. It consists in so arranging the fire-box, that the level of the water above the fire shall be considerably higher than the level of the water in the tubular part of the boiler, by which the amount of evaporating surface is increased to about seven times that of the tubular part of the boiler; and the tubes, instead of being fixed to the inside plate of the fire-box, are fixed to the outside plate, by which the water in each is kept entirely distinct, as exhibited by the drawing, where A marks the fire-box, B the tubular part of the boiler, C the bridge, situate about eighteen inches from the ends of the tubes. The inventor claims this arrangement as his invention.

The second part of these improvements has reference to the arrangement

inches from the ends of the tubes. The inventor claims this arrangement as his invention.

The second part of these improvements has reference to the arrangement of the fire-box with three arches, which consists in making the fire-box, against which the fire impinges with an undulating (as at Fig. 2), instead of a level, surface (as at Fig. 1), by which the amount of evaporating surface is considerably increased. The piers, or hollow columns, D, upon which the said arches are formed, are placed crosswise of the width of the fire-box, as shown at Fig. 2, and the under surfaces of each is inclined in an opposite direction; the inventor does not limit himself to the number of these arches, and claims this arrangement as his invention.

The third part of these improvements consists in combining the boiler, shown at Fig. 1, whether with three arches, more or less, with two pairs of driving-wheels coupled together—such wheels being mounted upon axles, which extend across recesses formed in the upper side of the tubular part of the boiler, as exhibited at E, E, Fig. 1; there are trailing-wheels for supporting the weight of the fire-box, and the weight-springs are disposed in the direction of the length of the axles, as shown at F, Fig. 1. The inventor claims this arrangement as his invention, by which he states that he is enabled to keep the centre of gravity very low, and which he "hopes" will prevent oscillation.

The fourth part of these improvements consists in a new arrangement of the search part of which principal is prevented. A Fig. 1 G marks of the searches we which principal is prevented.

he is enabled to keep the centre of gravity very low, and which he "hopes" will prevent oscillation.

The fourth part of these improvements consists in a new arrangement of the steam-pipe, by which priming is prevented. At Fig 1, G marks a steam-pipe, which is bent at the recessed part of the tubular boiler, from whence it passes through the water in the fire-box, extending in a vertical direction; H marks a steam-pipe, extending in a horizontal direction, and situate near the top of the fire-box, as shown; I, a steam-pipe communicating with the cylinder of the engine, such cylinder being placed on the outside of the fire-box, and at each side thereof the steam-pipes; H and I, as also the upper part of the pipe F, are perforated with an infinite number of small holes, by which priming is prevented. The inventor claims this arrangement of the steam-pipe as his invention.

The inventor further states, that the feed pumps may be worked by a cross-head from the piston-rod, for feeding the tubular and other parts of the boiler formed by the fire-box, each of which must be furnished with gauge-cocks and safety-valves; the eccentrics for actuating the slides and other parts, forming no part of this invention, must be arranged as circumstances may suggest.

Patent Give, 210 Stream, August 24.

stances may suggest.

Patent Office, 210 Strand, August 24.

RAHLWAY CLUB.—A meeting of engineers, surveyors, railway solicitors, &c., was held at the King's Arms Hotel, Bridge-street, Westminster, on Wednesday evening last,—Mr. J. VALENTINE, C.E., in the chair—for the purpose of taking into consideration the formation of a railway club, when it was resolved—"That the growing extent of railway enterprise, and the consequent increase in the number of gentlemen engaged in the profession of civil engineers, surveyors, architects, railway solicitors, parliamentary agents, and their assistants, not only resident, but who are occasionally located in London, renders the estaments of a club absolutely necessary, which shall extend to those parties the benefits usually derived from such institutions: contemplating the ultimate establishment of a library, museum, and model room, and forming a centre for this now numerous and most important class of individuals." A provisional committee, consisting of Messra, Oram, Jesson, and E.W. Gooch, civil engineers, was appointed to draw up the necessary rules, and otherwise carry the foregoing resolution into effect. It is proposed to establish the club in the nearest convenient vicinity to the Houses of Parliament, where lectures will be occasionally given, and conversaciones held, whereby the members may acquire greater proficiency in their respective avocations, and where, in the words of the prospectus, "their leisure hours, in the place of idle recreation, may be employed in embracing the facilities thus afforded for increased mental cultivation."

EAST INDIAN RAILWAY.—It has been determined, after mature consideration by the directors in London, that the executive management in India, of the affairs of the East Indian Railway Company, be vested in a board consisting of a chairman and two other gentlemen, whose experience in 'the railways of this country has qualified them for such employment. The members of this board are Mr. Macdonald Stephenson, the managing director of the

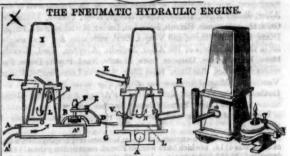
dented with various harbours, and an interior intersected by the magnificent streams of the Ganges, the Brahmapootra, and the Indus. In climate, it is classed by the latest authorities as falling under three general divisions—viz. the Himmalays, the belt of the slat century extending from the Indus to the Brahmapootra, and Peninsular India. In short, ranching, as our Asiatic possessions do, from within 8° of the equinectial line to the 33° of northern latitude, it may be easily perceived to possess a range from the temperature of the territal tone to the region of perpetual snow. The agricultural wealth of such a realm is, of course, of the grandest to be conceived, comprehending all the demands of the vastest commerce that could be prosecuted. Yest what is the reason that such rich and profuse commerce that could be prosecuted. Yest what is the reason that such rich and profuse commerce that could be prosecuted. Yest what is the reason that such rich and profuse commerce too from America: wheat from various quarters of the globe; tallow, flax, liemp from Russia; that we squabble about sugar from Brail—when India is the natural storehouse of the empire for every raw profinet to be yielded by the bountocounses of nature? The trade of india with the whole world has been estimated at about 30,000,000. sterling annually. It may well be hoped to be only in its infancy; it is, however, delightful to reflect upon the impetus which must naturally be given to it by the increase of his estam power, and the introduction of railreads—Assict-Gowmal.

GROWTH OF A BAILWAY.—The York and North Midland Railway Company started into being some 12 years ago, with a scheme for a little line of about 23 miles long, running from Leeds to York. Now the company possesses about 187 in work, 68 more to be opened during the next half-year, and powers to construct 65 miles more not yet commenced—in all 310; so that in a little more than a dozen years it will have increased more than 13 times its length. Its original name might have been the Infant Hercules.

A wire suspension bridge is now erecting over the Ohio, which will be the largest structure of the kind in the world, having a span of upwards of 1000 ft., whereas, that of Fribourg is but of 800 ft.

Many Dutch artisans have been engaged to proceed to Russia, for the purpose of establishing an iron shipbuilding yard, on the banks of the River Volga.

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Specification of a patent for an improvement in the hydraulic ram, called Strode-Pennauth Hydraulic Engine, granted to Joseph C. Strode, of East Brastferd township. Chester county, state of Francipyranis, March 77, 1847.]

The nature of my invention and improvement consists in making use of a column of condensed air between the propelling fluid and the fluid that is to be raised; a sid air being condensed in a pyramidal-shaped chamber, by means of the momentum of a descending column of water; asid chamber having a communication, by a small opening at its top, with another chamber, and upon which the condensed air in the first-named the spring water chamber (open at its low the condensed air in the first-named the spring water chamber (open at its low great in the seven of a vita of the condense of the c

In case of forcing up pure water by the propelling power of a running stream of water less pare, there is no possibility of the impure water mixing with the pure, there being at that time a column of condensed air between the two waters.

2. The water being forced into the upper chamber I, by the condensation of air in the lower chamber, the valve J opens more slowly than when water alone is made the propelling medium, and also shuts more slowly, thereby preventing the water from escaping back through the valve J after it is forced up—the valve J being nearly closed when the water cases to flow upward into the chamber/L. This advantage, upon trial, is found to be of considerable importance, enabling the machine, thus operated on, to force, with a given quantity of water, several barrels more of water per day than it would otherwise do.

3. There being no valve between the condensed air in the lower chamber and the driving water, or at the opening O, said air is permitted to act a longer time in forcing back said driving water, and thereby making a more complete vacuum than in other machines, and rendering uscless the spring for opening the outlet valve B, as used in several machines.

It is not necessary that the spring water chamber N, and the air chamber L, should be enclosed by the same envelops, but they may form separate chambers, and they may be arranged in any convenient way or manner meat acceptable to the constructor, provided that the capacity of the air chamber does not exceed a due ratio between the propelling power and the water to be raised. I wish it to be understood that in the construction of these machines, I do not wish to confine myself to the form of a hollow frustrum of a pyramid, cone, or other forms, for the several chambera, &c.; but I desire the privilege to vary these as I may think proper, in form, proportion, and material; provided, in all cases, that the surplus air be carried of through the valve B. I, however, prefer the forms a bove described when pure water is to be raised with

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is the chamber of the substitution of the subs

going individ scribed ciae for whilst made k For an

thereof, ing par equally valve to tained eduction we som its sides steam of with the being n Claim the man claim as steam to rangement the emp

aster. What I claim as my invention, and deaire to secure by letters patent, is—

1. Making use of a column of condensed air between the propelling fluid nd the fluid to be raised, in the manner above described, or other mode subtantially the same, by which analogous results are effected.

2. I claim the particular combination of the pyramidal air chamber L, the ternal spring water chamber N, and the water tube P, with the curved conjucting pipe A, and valve B, and the air chamber J, and hinged valve J, contructed and arranged in manner and for the purpose substantially as set forth.

RECENT AMERICAN PATENTS.

DRESSING GOLD AND SILVER ORES.

DRESSING GOLD AND SILVER ORES.

For an Improved Apparatus for Washing and Amalgamating Gold and Silver:

D. Asbary, Coburus P. O., Union County, North Carolina; May 2.

By the ordinary and common processes for the separation of gold and silver from their ores, by washing with water and amalgamation with mercury. In the hand-rocker, and long semi-circular trough, usually worked by hand, the quantity of sand and gravel which these machines can work is small; consequently, when that contains but little gold or platinum, it cannot be worked with profit; and in these machines there is a great loss of both gold and platinum, as well as quickaliver (when that is used), because the motion is half the time in one direction, and half the time in the other, by which the gold, &c., is prevented from subsiding, and, consequently, passes off with the water and asnd. In the Burke rocker, there is a still greater waste of quicksilver and the precious metals. In the Tyrolese bowls, the sand and gravel subside too soon to the bottom, and prevent the contact of the gold and silver with the quicksilver. My machine, I believe, will obviate all these practical swils, which heretofore have attended the extraction of the precious metals from their ores, or earthy and stony mixtures; these objects I effect in the following way:—The moving frame, which supports the pans, is hung to two cranks, on two shafts, one at each end, by the rotation of which the required shaking motion, such as would be given by hand, is obtained."

Claim.—" Having thus fully described my improved apparatus, what I claim as my invention, and desire to secure by letters patent, is the moving frame supporting one or more pans, and moved by cranks, or other analogous device, causing them to be shaken, in the manner and for the purpose above set forth."

THE MANUFACTURE OF IRON.

For an Improvement in Reverberatory Furnaces for Smelting Iron : A. Ellicott and J. McCrove, Baltimore, Maryland; May 16.

and J. McCrove, Baltimore, Maryland; May 16.

This is for an improvement in furnaces for reducing iron ores, whose object is to facilitate and economize fuel. Two stacks are placed side by side, with a blast for each, which, as occasion requires, may be diverted in such a manner; that nearly the whole blast may be directed to one of the stacks, while the charge in the other preserves sufficient heat for its stage of the process. It is believed, that extracts from the patent are unnecessary.

Claim.—"Having thus fully described the manner in which we construct our double hot-blast reversing furnace, and shown the design and operation thereof, what we claim therein as new, and desire to secure by letters patent, is the manner, herein made known, of combining two reverberating chambers with a single fire chamber, under an arrangement by which we are enabled, when necessary, to direct the whole of the double blast into either of the reverberating chambers at pleasure, for the purpose set forth. We also claim the particular manner in which we form, arrange, and apply the hollow grate bars, and the trunk, or tube, through which they are supplied with cold air, by which arrangement, all that is necessary to insure their proper action, is simply the dropping them in place, side by side, as herein made known."

For Improvements in the Process for Manufacturing Iron directly from the Ore,

and the trunk, or tube, through which they are supplied with cold air, by which arrangement, all that is necessary to insure their proper action, is simply the dropping them in place, side by side, as hereis made known."

For Improvements in the Process for Manufacturing Iron directly from the Ore, and in the Apparatus therefor: J. F. Winslow, Troy, New York; May 16.

"My improved process is applicable to the treatment of oxides of iron only; and this I effect in reverberatory furnaces, although some parts of the process may be applied in furnaces without the reverberatory feature. It has long been essayed to reduce the oxides of iron directly into the metallic state, by heating the ores mixed with carbonaceous matter, with the view to produce deoxidation, and then to transfer the mass thus treated to the puddling process: but in all these, which have so far been unsuccessful, the upper stratum only of the mass of ore and carbon was exposed to the direct action of the heat and fame, instead of the whole mass; and, to avoid the evil, it has been suggested to apply heat to the mass of ore and carbon below, as well as above, by placing the fire-grate directly under the furnace hearth, or floor, and then reverberating the flame, and passing it over the charge. This modification, while it removes the leading objection of the process above indicated, introduces practical difficulties of such magnitude as to defact the contemplated object. My improvements effectually avoid these difficulties, and consist in exposing the mass of pulverized ore, mixed with carbonaceous matter, to the combined action of a gentle flame, or heat; and currents of beated air, passing through the mass, and take up the remaining oxygen of the ore, and revive the metallic particles; and then the mass passes to the puddling process, that pass through the mass, and take up the remaining oxygen of the ore, and revive the metallic particles; and then the mass passes to the puddling process, where it is subjected to a still more intense heat, and to

For an Improvement in the Apparatus for Feeding Furnaces for Smelting: Squire M. Feles, Baltimore, Maryland; May 16.

Claim.—"I do not claim as my invention, feeding furnaces through a feeding tunnel simply, as this has been done; but what I do claim as my invention, and desire to secure by letters patent, is the combination of the tube and piston, for forcing in the coal, &c., in combination with the feeding tunnel and furnace, as described, whether the furnace be for smelting or for other purposes, as described."

THE STEAM-ENGINE.

For Improvements in Locomotive Engines: M. W. Baldwin, Philadelphia, Pennsylvania, May 16.

Pennsylvania, May 16.

Claim.—"What I claim as new, in the last described arrangement, is the connecting of the rods which are used as constituting a part of the frame of a six or eight wheeled locomotive, as described and represented; and also the connecting rods which embrace the crank pus upon the wheel, by forming a spherical segmental shell on one end of said rods, and attaching them together, in the manner set forth, so that such rods shall not only have perfect freedom of motion, but shall also stand in a line with, or directly behind, each other, at of motion, but shall also stand in a line with, or directly behind, each other, at their junction. I do not intend to make any claim, under either of the foregoing heads, to either of the parts of the respective devices claimed when taken individually, but I restrict the said claims to the respective combinations described; not intending, however, by this disclaimer, to limit myself to the precise form of the respective parts, but to vary these as I may think proper, whilst I adhere substantially to the principle or manner of arrangement fully made known."

made knows."

For an Improvement in the Balance-Valves of Steam Engines: W. H. Baker and H. R. Worthington, Brooklyn, New York; May 28.

"In constructing our balance slide valve, we so arrange the respective parts, thereof, as to cause the steam to operate equally on opposite sides of the aliding part thereof, allowing the steam to enter into, and escape from, the cylinder equally on each side of said valve. In effecting this, we sometimes cause the valve to alide between two stationary check-pieces, in each of which are contained three openings, operating in the ordinary may for the induction and eduction of steam. Instead of the two stationary check-pieces above-named, we sometimes employ one stationary valve seat being furnished with three steam openings on each of its sides, so arranged as to produce the same result with that first named, and in a manner substantially the same; the two modes being mere modifications of one principle."

Claim.—"Having thus fully described the nature of our improvements in the manner of constructing a balanced slide valve for steam-engines, what we claim as new therein, and desire to seeme by letters patent, is the causing the steam to sperate equally on and through its two opposite sides, under an arrangement of the respective parts, such as herein set forth; that is to say, by the employment of check-pieces, between which the valve may alide, or of an

elevated block, on each side of which the sliding valve is to operate, together with any such modification thereof as shall be substantially the same in its structure and operation, producing the same effect by like means."

For a Rotary Steam-Engine: R. Field Stevens, St. Louis, Missouri; May 80.

For a flotary Steam-Engine: R. Field Stevens, St. Louis, Missouri; May 80.

"The nature of my invention consists in providing an aperture, or opening, extending throughout the circumference of a wheel, and communicating with a hallow, or chamber, within, with a flexible hoop, ring, or band, which may be so applied to the said opening, as to confine steam, or other moving agent, within the hollow of the wheel, in order that its power may be communicated directly to the periphery of the wheel."

Claim.—" What I claim as my invention, and desire to secure by letters patent, is the application of a fiexible hoop, ring, or band, to an opening communicating with a hollow, or chamber, in the rim of a wheel, in such a manner as to close the opening in a part of its circumference, and leaving it open in the remainder, thereby allowing a communication with the chamber upon one side of the wheel, while the opposite side is closed, and the moving agent confined in such a manner, that its power is expended directly and constantly upon the periphery of the wheel. The said hoop or band may be made of any flexible substance: may be made of any dexible substance: may be made of any convenient form; may be made continuous, or jointed, or a part only of the hoop, or ring, may be used and applied to the opening, in the same manner as a portion of the continuous hop, or ring, may be applied to ether side of the chamber, in such manner as to produce the desired effect, operating as a circular valve."

For Improvements in Euroaces for Steam Boilers: Henry F. Båker.

circular valve."

For Improvements in Furnaces for Steam Boilers: Henry F. Båker,
Boston, Massachusetts; May 30.

Claim.—"What I claim, and desire to secure by letters patent, is one or
more reverberating chambers (made and arranged as above set forth), in combination with the fireplace and boiler; the same being made to revolve and
retain the volatile products underneath the boiler long enough to be consumed
thereunder, as above explained. And I also claim the manner of arranging
the air-distributing boxes, with respect to the bottom of the boiler, in combination with the curved deflecting bottoms of their respective chambers, in order
that the flams produced by the combustion of the volatile gases, or other matters passing over the perforated plates of said air-boxes, may be blown in jets
against the bottom of the boiler, as set forth; the said mode of arranging the
said air-boxes, consisting in giving each of them an inclined position, substantially as represented in the drawings, and as above specified."

For an Improvement in the Retary Steam Engine. Immes Black

For an Improvement in the Rotary Steam-Engine: James Black,
Philadelphia, Pennsylvania; May 30.

Claim.—"Having thus fully described my rotary engine, what I claim therein an new, and desire to secure by letters patent, is the combination of the rotary pistons with the lateral steam passages, or chambers, on each side of the same, in such a manner, that the steam shall pass from one chamber to another, through the passages between the pistons, in regular succession from the steam-pipe to the escape-pipe, at the same time acting upon the pistons, substantially in the manner herein set forth."

THE AMERICAN EXCAVATOR.

or an Improvement in the Machine for Excavating and Removing Earth; patented by W. J. Otis, on the 24th day of February, 1839; D. Carmichael and J. C. Osgood, the former of Brooklyn and the latter of Chittenango, New York; May 30.

New York; May 30.

Claim.—" Having thus fully described the manner in which we construct and operate our improved excavating machine, what we claim therein as new, and desire to secure by letters patent, is the manner herein described, in which we have connected and combined the scraper-staff, or arm, with the machine, so that it may be raised or lowered by means of the racks and pinions (by the aid of the triangular piece), arranged and operating as set forth, thereby dispensing entirely with the hollow mast, and with the toothed gearing and chains combined with said mast, as used for that purpose, in the original machine of Otia."

HOT-AIR FURNACES.

For an Improvement in Hot-air Furnaces: William G. Wing, New Bedford, Massachusetta; May 23.

Massachusetts; May 23.

Claim.—"I do not claim the combination of the inner hot-air chamber with the smoke chamber (immediately surrounding it), and the outer hot-air chamber immediately surrounding the said smoke chamber; but that which I do claim, is my aforesaid improvement, or manner of causing the air to circulate through the inner air chamber, for the purpose of protecting the bottom part or plate of the said air chamber from being too rapidly burnt out, and also for the purpose of causing the said air to absorb more heat than it would if allowed to circulate in an undivided chamber, and scape at the top thereof; my said improvement consisting in the employment or arrangement of the partitions, and induction and eduction passages of the inner air chamber, in such manner (as described) as to cause the air, which is received into the inner air chamber, to impinge in a current perpendicularly or directly upon the upper surface of that portion of the bottom plate of the said air chamber, which is exposed to the direct action of the flame from the fire-pot, or furnace, beneath it; the whole being substantially as set forth."

For an Improvement in Registers for Hot-air Furnaces: Ebenezer Barrows, New York; May 28.

New York; May 28.

Claim.—"Having thus fully described the manner in which I construct and arrange my apparatus for the opening and closing of the valves of registers for air-heating furnaces, what I claim therein as new, and desire to seeme by letters patent, is the manner set forth of employing a hemispherical body, furnished with volute-formed openings, or threads, which receive and operate upon pins extending from the middle of the valves adapted thereto; the whole combination and arrangement, and the consequent operation of the parts, being substantially the same with that fully made known."

WEIGHT OF THE BRITANNIA-BRIDGE TUBES.—We are informed that the average weight, per lineal foot, of each tube for the Britannia-bridge, now in wide, 30 ft. high, weight 1200 tons, and has to be lifted 116 ft. high by hydrostatic power, to be placed upon the stone piers now constructing for that purpose. , will be 2 tons 10 cwts; the form of the tubes is elliptical, 15 ft-

FLAT GIRDER BRIDGES IN MANCHESTER.—We understand that the General Purposes Committee have passed a resolution, to the effect, that it is desirable to take steps to secure the safety of the public, with reference to the railway bridges in the progress of erection, or about to be srected, within the borough. The matter was referred to the railway bridges sub-committee, with a recommendation to call in Mr. E. Hodgkinson, P.R.S., and to take such other steps as to enable them to report to the committee. We understand that the railway bridges sub-committee have had an interview with Mr. Hodgkinson, and have made various inquiries; but, as they are not yet reported to the committee, it would be premature further to notice their proceedings. We believe we may say, that on the intimation of the committee, the Manchester South Junction and Altrincham Railway Company (now the London and North-Western Company), have suspended the erection of their flat-beam girder bridges within the borough, and that it is not improbable that the beams already up will be removed, and that cast-iron arched bridges will be substituted for them.—Manchester Guardian.

The Telegraph—New Position for the Ground Plates, and new

removed, and that cate it is not improvable that the beams aready up with the memory and that the state is also substituted for them. Manchester Guardian.

The Telegraph—New Position for the Ground Plates, and survey and the state of the Philadelphia office of the Atlantic and Oho Telegraph Company, some time since, finding it has the line worked badly, resorted to an experiment, which has been successful. Heretofors all lines have used a ground-plate connected with the beat of the Philadelphia office of the Atlantic and Don Telegraph Company, some time since, finding that the line worked badly, resorted to an experiment, which has been successful. Heretofors all lines have used a ground-plate for the properties of the properties of the part of the part of the properties of t

THE BRITANNIA TUNNEL-BRIDGE

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TO THE BRITANNIA TUNNEL-BRIDGE.

TO THE BRITANNIA TUNNEL-BRIDGE.

Str.—Having read an account of the proceedings at the half-yearly meeting of the proprietors of the Chesiar and Holyhood failway Company on the Pills lind, in which processon, Half, managing director of that railway, in his speech, on the oc. aion. I think it rights to explain what has been unisapprehended in my letter. Mr. Enghnemon is quite correction, and the processon, Half, managing director of that railway, in his speech on the oc. aion. I think it rights to explain what has been unisapprehended in my letter. Mr. Enghnemon is quite correction, the processor of the control of the processor of the control of the my letter, and the surpers of the surpers of the control of the my letter, and the surpers of the my letter, and the surpers of the surpers of the control of the my letter of the surpers of the su

BRIDGE OVER THE MENAI STRAITS.

TO THE EDITOR OF THE BAILWAY RECORD.

Sig.—Permit me to correct what I am stated in your journal to have said at a meeting the proprietors of the Chester and Holyhead Railway, on Wednesday, the 11th inst

BRIDGE OVER.

S12.—Permit me to correct what I am stated in your journal to have said at a meeting of the proprietors of the Chester and Holyhead Hallway, on, Wodnesday, the Jith Inst. [see the Missing Journal of the 14th.]

After Mr. Stephenson's answer to my observations on the tube—respecting the means of supporting it, and the vibration likely to ensue—I am reported to have said, that "I was quite satisfied," which, menylanded, would appear to imply that I perfectly coincided in Mr. Stephenson's plans and remarks, whereas my satisfaction was simply confined to the very confident opinion I shall indeed be nell satisfied to see realised. Now, although I would throw no doubt on Mr. Stephenson's shalling to construct a wrought-iron beam sufficiently strong, when fixed in its place, for the passage of trains, still I am inclined to think that a better and more economic plan, and one less liable to faiture, could have been devised for crossing the Straits than a ponderous hollow fron beam, solely dependent upon its innate strength for resisting, not only the impulsive weight of the trains, but the far greater weight of its own built; which is increased by Mr. Stephenson declining to apply those means by which he might multiply his points of support, and thereby reduce the weight of he trains, but the far greater weight or bridge. The form adopted is also, perhaps, the best that could be devised for inviting and retaining the action of the wind, both outwardly and inwardly. The force whichmay come upon the tube from this source alone, in a violent hurricane, would equal 620 tons, applied in every variety of form—upward, downward, and laterally, inside and outside—testing every rivet and every sheet of iron in the most searching manner. This force, added to the weight of the tube and the trains, fully equale 2000 tons weight in the tube, versus 100 tons of impulsive force in the trains, will, no doubt, tend to the work of the tube and the trains, fully equale 2000 tons weight in the tube, versus 100 tons of impulsi

object for consideration—inc break, which is unfortunately, in most cases, as little looked to as the pump on board of skip, shirough equality essential for the prevention of actions and the preservation of both passessgers and carriages. In all passenger trains, without exception, whatever the description of carriage may be of which the train is made up, one and all should be furnished with breaks. The number of breaksness would of course be regulated by the extent of the train; but, taking into account the velocity at which trains now travel, and its prospective increase through the improved mechanism of the system, one breaksness aboud be appointed to every three, or, at least, four carriages, or tracks, as the case may be, averaging a gross load of about 39 tons. These men should be properly drilled in the use and application of the break (which few understand), and care should be taken to instruct them that, where practicable, the break should invariably be first applied by the break man upon the last carriage or truck, in the extreme rear of the train, to prevent the carriages riding upon their buffers, by which so many serious accidents have occurred, when the carriages and tracks have been forced off the rails. On the contrary, the break upon the angine-tonder is generally put first into requisition, which ought to be the last applied except in cases of emergency, and then only with very great; ladgment; a audden check imparted to a train when m motion frequently being as dangerous as a collision; the passengers having the same velocity as the train, those sitting with their faces to the engine care impelled against their opposite neighbours, whose backs happen to be towards the engine, exactly with the proportionate amount of damage due to the momentum acquired—hence the practice of auddenly arresting the progress of the train by the application of the break is highly dangerous, and ought to be adopted upon every line of railway. There are, of ourse, other requirements necessary to gaard against danger

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

MEETINGS DURING THE ENSUING WEEK.

This Day.....Thismes Haven Dock and Railway—Guildhall Coffee-house, at Onc. Londonderry and Coleraine Railway—Giflees, at Twelve.

Monday.....Acturian Mining Company—offices, at Two.
Banwen Iron Company—offices, at Two.
Liyavi Vailey Railway—offices, at Two.
Liyavi Vailey Railway—offices, at Two.
Liyavi Vailey Railway—offices, at Two.
Caradou Wheal Hooper Mining Company—at the mine, at Twelve.
Irish Waste Land Improvement Society—King's Head Tavern, at Onc.
Caledonian Railway—Giflees, Hole, Edinburgh, at One.
Taw Vaile Railway and Dock Company—London Tavern, at One.
Swanses Dock Company—Guildhall Coffee-house, at One.
Swanses Dock Company—Giflesh I Coffee-house, at One.
Faidax... Bristol and Exeter Railway—Write Lion Hotel, Bristol, at Twelve.
Faidax... Ilam Mining Company—Giflesh et One.
[The meetings of Mining Company—offices, at One.
[The meetings of Mining Companyses are inserted among the Mining Istelligence.]

[The meetings of Mining Companies are inserted among the Mining Intellig

line are in active progress. A conversation arose as to the intention of directors in the matter of interest; when the Chairman stated that, as the Railway Commissioners kept a sharp look-out after companies, he could only promise that the "directors would use their best endeavours to render the payment of 5 per cent. kgal.

"Vale of Neah." The report stated, that the Act authorising the construction of the whole of the works had been obtained. Contracts for nine miles were let to responsible contractors, and had been commenced; and there was a sufficient behavior. The principal difficulties which the directors have had to encounter on this line were passing away; the first five miles of construction was proceeding satisfactorily; and the directors, in their report, expressed their anticipations of the best results.

DINDALK AND EXEMBLERS.—The principal difficulties which the directors are related from 750,000 to 450,000; and by the engineer's report, it was shown that the works were processing in a very satisfactory and proceeding antisfactory and the company had been reduced from 750,000 to 450,000; and by the engineer's report, it was shown that the works were processing in a very satisfactory manner.

NORTHERN COUNTIES UNION. Half-yearly.—The directors' report stated that the deviation bill had received the Royal Assent, and by it the capital was reduced to 2,625,000, being a diminution of 375,000, or 64,5a per share. An agreement had been entered into with the Stockton and Darlington Company for a guarantee on the expenditure from Bishop Auckland to West Mill, and the meeting was made special for the purpose. The Chairman stated, he believed there would be no further call during 1847, as they had sufficient funds to go on to the end of the year; only half the last call had been received, some parties were willing to pay the 5 per cent. interest, rather than raise the money immediately. The number of directors was reduced from 18 to 12, and the report was unanimously adopted.

BISHANGHAM, WOLVERHAMPTON, AND

SURDERLAND DOCK COMPANY.—The half-yearly meeting of this company was held in the Commission-room, Durham, on Monday last. From the directors' roport, it appeared that the undertaking was progressing as favourably as their most sanguine expectations could desire. The construction of the large dock and half-tide hasin was let by contract, and they expected to have the work completed by the 3lst of December, 1849. From the orgineor's report, it appeared that the groins had been made of Bolid mason work: the excavations were progressing rapidly, and overy other department of the work now in progress was proceeding very favourably.—The CHAIRMAM (Mr. Bramwell), remarked that the shipping trade of Sunderland exceeded its harbour accommodation; the dock now in progress, however, would, he hoped, increase the accommodation cocupying an extent of 27 acres, and adapted to give the greatest facility to business, of which there was every prospect of a good share. The coal-field of the neighbourhood was one of the first in quality in the world—already 1,500,000 chaldrons of coals in a year were shipped at the port; and recently other collicries had been added, which were likely to vend their productions at Sunderland. The railway leading to the dock would shortly be extended to Bishop Auckland, and a great amount of traffic by the increased facility of transit to the west side of this extensive county might reasonably be looked for. The dock dues would be of a very moderate character, and ships loading therein would not be subjected to the expense of 1s. 6d. per keel for towing on the river as at present. The directors expected that the undertaking would be completed without the full amount of 25f. on each share being called for. He mentioned, that a claim on behalf of the Bishop had been made upon the directors, for a consideration for his privilege. A valuer had been appointed, and the award could not be much, as the ground was previously useless.

THE ENGINEER'S AND CONTRACTOR'S POCKET-BOOK for 1847 and 1848, New Edition, is now just published, price 6s.

John Weale, 59, High Holborn.

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INVENTIONS, IMPROVEMENTS, AND PRACTICE OF
General Manager, with some interesting particulars relative to Watt's Steam-Engine, and
a short Treatise on the Coal Trade Regulation.

M. and M. W. Lambert, 69, Grey-street.—London: John Weale, 59, High lolborn; and at the Office of the Mining Journal, 26, Fleet-street.

A DCOCK'S PATENT SPRAY PUMP.—This important INVENTION having been PERFECTED, and brought into SUCCESSFUL PRACTICAL OPERATION at LLANHIDDEL, at pits belonging to R. J. Blewitt, Esq., M.P., Llantarnam Abbey, near Newport, Monmouthahire, the PATENTEE is ready to RECEIVE, and to execute, ORDERS.—Apply to Henry Adocek, C.E., at his effices, 137, Strand, London, where pamphlets, descriptive of the invention, may be had; at the office of the Mining Journal, 26, Fleet-street; and through any respectable bookseller—price fits.

CEORGIA TIN MINES, divided into 2048 shares, and worked ON THE COST-BOOK SYSTEM.

The necessary arrangements having been made for carrying out the operations of the company, all future communications are requested to be addressed to the offices of the company, 21, THROGMORTON-STREET, LONDON, where the specimens and plans with the correspondence, may be seen.

EAST COOMBE SILVER AND LEAD MINING COMPANY—In 4096 shares, at One Guines per share.

BANKERS—The National Provincial Bank of England, Barnstaple SECRETARY—Mr. George Chowen.

BANKERS—The National Provincial Bank of England, Barnstaple.

SECRETARY—Mr. George Chowen.

The mines possessed by the company extend upwards of 800 fathoms on the run of the lodes, and about 200 fathoms in a cross direction, situate in the parish of Swymbridge, near Barnstable, being held under a lease of \$21 years, at 1-15th dues. The lodes are parallel with those of the Combusartin Mines, and in every respect similar in their components parts, matrix as well as country (which latter is a kindly killas), and may be worked at an easy cost. The operations of the present company have been confined for the past two years to clearing up the old workings, sinking engine-shaft, extanding levels, &c.; but it being deemed easentially necessary to crect a steam-engine, with the view of putting the mine to a greater depth, as also proving the north lode, it has been determined to extend the number of shares to 4006, with a payment of One Guinea per share, a considerable proportion of which will be taken by the present proprietors. It may be observed, that the mines may be worked for the next six or eight months without the aid of steam-power, there being a good water-wheel cretected, but which can only be partially applied, from the top water falling off; during which time the north lode (the most promising one in the sett) can be intersected at the 10 and 30 fathom levels, and driven on at those points. The adventurers have lately secured a valuable addition to the sett, which considerably enhances the value of the property to the Cost-book System; a finance committee being appointed, who will have centred to be appointed at the first meeting of the adventurers, and remain in office two months, which adventurers, and remain in office two months are such as a single payment of the committee on payment of the committee of the committee of the committee of the committee of the payment of the interest and isobilities, thus procluding the possibility of any adventurer being rendered lable beyond the two months are cost. The

nnexed report of Captain Williams, will convey general informatis which the mine presents.

Prospects which the mine presents.

REPORT.

I have inspected the East Coombe Mine, and beg to hand you my report. The mine is located in a stratum of rich blue killas. The lodes are parallel to those of the celebrated Combmartin Mine, and is similar strata of ground. A considerable quantity of ore appears to have been taken from the south lode. In the bottom of the 10 fathom lovel, a good branch of silver-lead ore is going down, and I have no doubt of your having a course of ore in this lode at the next level.

The north lode, however, in my opinion, is the most kindly one in the sett. The indications at the adit being of the most encouraging nature, I strongly recommend this lode being cut, with all possible dispatch, at the 10 and 20 fm. levels; and I confidently believe you will find it rich when intersected. The machinery is in first rate order, and well laid out. It is my firm conviction, that if a steam-engine were erected, and the working vigorously prosecuted, considerable returns might at once be made.

J. WILLIAMS.

Applications for shares to be made to J. P. Gilbert, Esq., Manager, National Provincts Barnstaple ; Mr. John Westacott, East Coombe Mining Office, Swymbridge ; and cretary, Mr. George Chowen, from whom prospectuses may be had.

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INSURANCE COMPANY.—The DIRECTORS invite the public generally, also
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Offices, 39, Nicholas-lane, Lombard-street.

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The remarkable success and increasing prosperity of the society has enabled the directors, at the last annual investigation, to declare a fourth bonus, varying from 35 to 85 per cent. on the premiums paid on each policy effected on the profit scale.

Bonus in Cash. Prem. | Year. | Bonus added. 1837 £217 15 1 £109 0 11 1838 199 3 0 87 1 4 4 1839 165 11 10 74 1 9 £445 0 395 11 346 2 £16 0 4 13 10 9 11 3 1 1840 116 7 6 1841 111 6 8 54 9 10 49 10 0 247 4 5

The division of profits is annual, and the next will be made in December of the pre-year. F. FERGUSON CAMROUX, Secretar



REED'S RAILWAY CHAIRS AND RAILS.—The support, and thereby preventing the deflection of the rail. The SLEEPER CHAIR (as shown in the above figures) gives 10, and the BLOCK CHAIR 22, inches support. The instre chairs are economical substitutes for the stone block, and possess the advantage of being more readily laid down on the line—are less expensive—require no renewal, and always bear the value of metal. In travelling over these chairs, the engine is less liable to jump, and sequire that restlient motion, which is so dangerous and objectionable. Rails hid down on these chairs carry greater weight than those piaced on the chairs now in use, and the rails, consequently, may be of less weight. The improvement in the rails consists in their overlapping at the points of junction, thereby preventing the rails flawing assunder or working loose, and springing up at the ends. The chairs and rails flay be seen at the Geometrical Railway Office, No. 29, Foultry, London.

ELBOROUGH SILVER-LEAD, CALAMINE, AND

This MINE is signated in the parish of HUTTON, Somerses, within four miles of Western Railway, is divided into 356 shares, and managed on the Cost-book System. The sett, which comprises 800 fithoms in length and 400 fishtoms in width, contains a great number of lodes, which inever proved very productive as far as they have been wrought. It is well-known that for centuries part large quantities of load ores have been raisefully be available for control of the contains a great number of lodes, which have proved very productive as far as they have been wrought. It is well-known that for centuries part large quantities of load ores have been raisefully the available of gruffing, a rade sort of mining of the cliertic, and parties so working, betained and the contained large profits, although paying a mining of the cliertic, and parties so working, obstanced large profits, although this set; has been a very productive one, even by the rade operations of the gruffers on the backs of the lodes, and within a few fathoum of the sastace, yet for want of more mining experience mothing has been done effectually in proving the lodes, it reason of the gruffers of productions are visible for several hundred fatheaut in length, and the rubbish, or waste operations are visible for several hundred fatheaut in length, and the rubbish, or waste operations are visible for several hundred fatheaut in length, and the rubbish, or waste operations have been reported.

The report of the neighbourhood badness mines are properly worked.

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The thort start of the sett; and having obtained it as important management of the containing and the rubbish, or waste of the several places; and having faily attisfied themselves of the olde, having ax other lodes underlaying obtained working the working as the proper of the propendicular of the setting and the setting and the setting and the propendicular of the setting

prosecuted to the depth of 100 failtoms, without the size or a single phenylation in stating this, with other advantages connected with the converse, justify the proprietors in stating this, with other advantages connected with the converse, justify the proprietors in stating this, which is about all principles of this mineral country from the Bristol river to Wells, which is about 30 miles sorth and south, and from Bain to Bridgewater river, which is about 40 miles, cast and west, and lawre, in so doing, examined very carefully the goological and mineralogical youlding of a seasoftone, new red sandatione, liss, penant, mineral or mountain limestone, old red insulation, captric, privately, and insper i there are bundreds of lodes and venus in this range, which carry metallic and mineral ores, such as lead, from, copper, manganege, calamine, baryice, pyrites, reddle, antimory, coal, yellow other, and with lead ores.

Having heard that there were some of my countrymen at Elborough, near Baswell, working a mine, i went to see them on Thesday, and found Capt. Trovillick and his pare dressing lead and calamine; Capt. Trovillick asked me to welk around the mine with him; i went underground at Vivian's lode, and underlying north, which I think are likely to drop in and improve this lode in depth. I think this along other a very promising mine, it is in the mountain limestone that this route is, and the mountain limestone that this route is, and it is in the mountain limestone that this route is, and it is in the mountain limestone that this route is, and it is in the mountain limestone that this route is, and it is in the mountain limestone that the principal British less mines are attructed, and they are those of Somersetshire, Derbyshire, Yintshire, Camberland, Shropshire, Vintshire, and Denbightire—these are the most productive for lead and calamine.

The lead mines in Cornwall and Devon are in primitive rock, so that the Cornin and Drawn and productive for lead and calamine.

The mineral productive for lead and ca



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